```
FILE 'HOME' ENTERED AT 16:22:32 ON 26 AUG 2002

=> index chemistry agriculture polymers patents bioscience meetings
FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         0.42       0.42

INDEX 'AGRICOLA, ALUMINIUM, ANABSTR, BABS, BIOCOMMERCE, BIOTECHNO, CABA, CAOLD,
       CAPLUS, CBNB, CEABA-VTB, CEN, CERAB, CIN, COMPENDEX, CONFSCI, COPPERLIT,
       CORROSION, DKILIT, ENCOMPLIT, ENCOMPLIT2, FEDRIP, GENBANK, INSPEC,
       INSPHYS, INVESTEXT, IPA, JICST-EPLUS, ...' ENTERED AT 16:23:33 ON 26 AUG 2002

113 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view
search error messages that display as 0* with SET DETAIL OFF.

=> s (oil (w) bodies) and separation
           2   FILE AGRICOLA
           4   FILE BIOTECHNO
           5   FILE CABA
          10   FILE CAPLUS
           2   FILE CEABA-VTB
           1   FILE ENCOMPLIT
           1   FILE ENCOMPLIT2
  21 FILES SEARCHED...
           5   FILE JICST-EPLUS
           5   FILE PROMT
           8   FILE SCISEARCH
           1   FILE TULSA
  40 FILES SEARCHED...
           1   FILE BIOBUSINESS
          10   FILE BIOSIS
           4   FILE ESBIOBASE
           2   FILE FSTA
           2   FILE IFIPAT
           2   FILE LIFESCI
          45   FILE USPATFULL
           3   FILE WPIDS
  62 FILES SEARCHED...
           3   FILE WPINDEX
          15   FILE DGENE
           1   FILE DPCI
           2   FILE ENCOMPPAT
           2   FILE ENCOMPPAT2
           5   FILE EUROPATFULL
           1   FILE PATOSEP
           1   FILE PATOSWO
           3   FILE PCTFULL
  80 FILES SEARCHED...
           2   FILE BIOTECHABS
           2   FILE BIOTECHDS
           2   FILE EMBASE
           2   FILE MEDLINE
           1   FILE TOXCENTER

  33 FILES HAVE ONE OR MORE ANSWERS,  113 FILES SEARCHED IN STNINDEX

L1   QUE (OIL (W) BODIES) AND SEPARATION

=> file hits
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         6.89       7.31
```

FILE 'USPATFULL' ENTERED AT 16:31:28 ON 26 AUG 2002
CA INDEXING COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'DGENE' ENTERED AT 16:31:28 ON 26 AUG 2002
COPYRIGHT (C) 2002 THOMSON DERWENT

FILE 'CAPLUS' ENTERED AT 16:31:28 ON 26 AUG 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'BIOSIS' ENTERED AT 16:31:28 ON 26 AUG 2002
COPYRIGHT (C) 2002 BIOLOGICAL ABSTRACTS INC.(R)

FILE 'SCISEARCH' ENTERED AT 16:31:28 ON 26 AUG 2002
COPYRIGHT (C) 2002 Institute for Scientific Information (ISI) (R)

FILE 'CABA' ENTERED AT 16:31:28 ON 26 AUG 2002
COPYRIGHT (C) 2002 CAB INTERNATIONAL (CABI)

FILE 'JICST-EPLUS' ENTERED AT 16:31:28 ON 26 AUG 2002
COPYRIGHT (C) 2002 Japan Science and Technology Corporation (JST)

FILE 'PROMT' ENTERED AT 16:31:28 ON 26 AUG 2002
COPYRIGHT (C) 2002 Gale Group. All rights reserved.

FILE 'EUROPATFULL' ENTERED AT 16:31:28 ON 26 AUG 2002
COPYRIGHT (c) 2002 WILA Verlag Muenchen (WILA)

FILE 'BIOTECHNO' ENTERED AT 16:31:28 ON 26 AUG 2002
COPYRIGHT (C) 2002 Elsevier Science B.V., Amsterdam. All rights reserved.

FILE 'ESBIOBASE' ENTERED AT 16:31:28 ON 26 AUG 2002
COPYRIGHT (C) 2002 Elsevier Science B.V., Amsterdam. All rights reserved.

FILE 'WPIDS' ENTERED AT 16:31:28 ON 26 AUG 2002
COPYRIGHT (C) 2002 THOMSON DERWENT

FILE 'WPINDEX' ACCESS NOT AUTHORIZED

FILE 'PCTFULL' ENTERED AT 16:31:28 ON 26 AUG 2002
COPYRIGHT (C) 2002 Univentio

FILE 'AGRICOLA' ENTERED AT 16:31:28 ON 26 AUG 2002

FILE 'CEABA-VTB' ENTERED AT 16:31:28 ON 26 AUG 2002
COPYRIGHT (c) 2002 DECHEMA eV

FILE 'FSTA' ENTERED AT 16:31:28 ON 26 AUG 2002
COPYRIGHT (C) 2002 International Food Information Service

FILE 'IFIPAT' ENTERED AT 16:31:28 ON 26 AUG 2002
COPYRIGHT (C) 2002 IFI CLAIMS(R) Patent Services (IFI)

FILE 'LIFESCI' ENTERED AT 16:31:28 ON 26 AUG 2002
COPYRIGHT (C) 2002 Cambridge Scientific Abstracts (CSA)

FILE 'ENCOMPPAT' ENTERED AT 16:31:28 ON 26 AUG 2002
EnComppat compilation and indexing (C) 2002
Elsevier Engineering Information Inc. All rights reserved.

FILE 'ENCOMPPAT2' ENTERED AT 16:31:28 ON 26 AUG 2002
EnComppat2 compilation and indexing (C) 2002

FILE 'BIOTECHABS' ACCESS NOT AUTHORIZED

FILE 'BIOTECHDS' ENTERED AT 16:31:28 ON 26 AUG 2002

FILE 'EMBASE' ENTERED AT 16:31:28 ON 26 AUG 2002

FILE 'MEDLINE' ENTERED AT 16:31:28 ON 26 AUG 2002

FILE 'ENCOMPLIT' ENTERED AT 16:31:28 ON 26 AUG 2002

FILE 'ENCOMPLIT2' ENTERED AT 16:31:28 ON 26 AUG 2002

FILE 'TULSA' ENTERED AT 16:31:28 ON 26 AUG 2002

FILE 'BIOBUSINESS' ENTERED AT 16:31:28 ON 26 AUG 2002

FILE 'DPCI' ENTERED AT 16:31:28 ON 26 AUG 2002

FILE 'PATOSEP' ENTERED AT 16:31:28 ON 26 AUG 2002

FILE 'PATOSWO' ENTERED AT 16:31:28 ON 26 AUG 2002

FILE 'TOXCENTER' ENTERED AT 16:31:28 ON 26 AUG 2002


```
=> s l1 and (purification or purify)
L2          23 FILE USPATFULL
L3           0 FILE DGENE
L4           1 FILE CAPLUS
L5           2 FILE BIOSIS
L6           0 FILE SCISEARCH
L7           1 FILE CABA
L8           0 FILE JICST-EPLUS
L9           2 FILE PROMT
L10          3 FILE EUROPATFULL
L11          1 FILE BIOTECHNO
L12          1 FILE ESBIOBASE
L13          0 FILE WPIDS
L14          3 FILE PCTFULL
L15          0 FILE AGRICOLA
L16          0 FILE CEABA-VTB
L17          0 FILE FSTA
L18          0 FILE IFIPAT
L19          0 FILE LIFESCI
L20          0 FILE ENCOMPPAT
L21          0 FILE ENCOMPPAT2
L22          1 FILE BIOTECHDS
L23          1 FILE EMBASE
L24          0 FILE MEDLINE
L25          0 FILE ENCOMPLIT
L26          0 FILE ENCOMPLIT2
L27          0 FILE TULSA
```

```
L28           0 FILE BIOBUSINESS
L29           0 FILE DPCI
L30           0 FILE PATOSEP
L31           0 FILE PATOSWO
L32           0 FILE TOXCENTER

TOTAL FOR ALL FILES
L33          39 L1 AND (PURIFICATION OR PURIFY)

=> dup rem l33
DUPLICATE IS NOT AVAILABLE IN 'DGENE, DPCI'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L33
L34          36 DUP REM L33 (3 DUPLICATES REMOVED)

=> d l34 1-34 ibib abs

L34  ANSWER 1 OF 36  USPATFULL
ACCESSION NUMBER:        2002:191630  USPATFULL
TITLE:                   Transcription factor stress-related proteins and
                         methods of use in plants
INVENTOR(S):             Silva, Oswaldo da Costa e, Apex, NC, UNITED STATES
                         Bohnert, Hans J., Tucson, AZ, UNITED STATES
                         Thielen, Nocha van, Cary, NC, UNITED STATES
                         Chen, Ruoying, Apex, NC, UNITED STATES

                              NUMBER        KIND    DATE
                         ---------------- ------ --------
PATENT INFORMATION:      US 2002102695      A1   20020801
APPLICATION INFO.:       US 2001-828303     A1   20010406  (9)

                               NUMBER         DATE
                         ------------------ --------
PRIORITY INFORMATION:    US 2000-196001P    20000407 (60)
DOCUMENT TYPE:           Utility
FILE SEGMENT:            APPLICATION
LEGAL REPRESENTATIVE:    SUTHERLAND ASBILL & BRENNAN LLP, 999 Peachtree Street,
                         NE, Atlanta, GA, 30309-3996
NUMBER OF CLAIMS:        32
EXEMPLARY CLAIM:         1
NUMBER OF DRAWINGS:      44 Drawing Page(s)
LINE COUNT:              4261
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB     A transgenic plant transformed by a Transcription Factor Stress-Related
       Protein (TFSRP) coding nucleic acid, wherein expression of the nucleic
       acid sequence in the plant results in increased tolerance to
       environmental stress as compared to a wild type variety of the plant.
       Also provided are agricultural products, including seeds, produced by
       the transgenic plants. Also provided are isolated TFSRPs, and isolated
       nucleic acid coding TFSRPs, and vectors and host cells containing the
       latter.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L34  ANSWER 2 OF 36  USPATFULL
ACCESSION NUMBER:        2002:187147  USPATFULL
TITLE:                   Expression of somatotropin in plant seeds
INVENTOR(S):             Moloney, Maurice M., Calgary, CANADA
                         Habibi, Hamid R., Calgary, CANADA

                              NUMBER        KIND    DATE
                         ---------------- ------ --------
PATENT INFORMATION:      US 2002100073      A1   20020725
APPLICATION INFO.:       US 2001-887569     A1   20010625  (9)
RELATED APPLN. INFO.:    Division of Ser. No. US 1998-210843, filed on 18 Dec
```

1998, PATENTED Continuation-in-part of Ser. No. US 1997-846021, filed on 25 Apr 1997, PATENTED Continuation-in-part of Ser. No. US 1994-366783, filed on 30 Dec 1994, PATENTED Continuation-in-part of Ser. No. US 1993-142418, filed on 16 Nov 1993, ABANDONED Continuation-in-part of Ser. No. US 1991-659835, filed on 22 Feb 1991, ABANDONED

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Micheline Gravelle, Bereskin & Parr, 40 King Street West, Box 401, Toronto, ON, M5H 3Y2
NUMBER OF CLAIMS: 29
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Page(s)
LINE COUNT: 718
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides a method of preparing somatotropins in plants and transgenic plant seeds containing somatotropins. The method provides an economical way to produce somatotropins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L34 ANSWER 3 OF 36 USPATFULL
ACCESSION NUMBER: 2002:166389 USPATFULL
TITLE: Preparation of thioredoxin and thioredoxin reductase proteins on **oil bodies**
INVENTOR(S): Moloney, Maurice M., Calgary, CANADA
Dalmia, Bipin K., San Diego, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002088025	A1	20020704
APPLICATION INFO.:	US 2001-897425	A1	20010703 (9)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1998-210843, filed on 18 Dec 1998, GRANTED, Pat. No. US 6288304 Continuation-in-part of Ser. No. US 1997-846021, filed on 25 Apr 1997, GRANTED, Pat. No. US 5948682 Continuation-in-part of Ser. No. US 1994-366783, filed on 30 Dec 1994, GRANTED, Pat. No. US 5650554 Continuation-in-part of Ser. No. US 1993-142418, filed on 16 Nov 1993, ABANDONED Continuation-in-part of Ser. No. US 1991-659835, filed on 22 Feb 1991, ABANDONED

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Stephen A. Bent, FOLEY & LARDNER, Washington Harbour, 3000 K Street, N.W., Suite 500, Washington, DC, 20007-5109
NUMBER OF CLAIMS: 21
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 38 Drawing Page(s)
LINE COUNT: 3171
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to the use of a class of genes called oil body protein genes that have unique features. The discovery of these features allowed the invention of methods for the production of recombinant proteins wherein a protein of interest can be easily separated from other host cell components. The invention is further exemplified by methods for exploitation of the unique characteristics of the oil body proteins and oil body genes for expression of polypeptides of interest in many organisms, particularly plant seeds. Said polypeptides include thioredoxin and/or thioredoxin reductase. The invention can also be modified to recover recombinant polypeptides fused to oil body proteins from non-plant host cells.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L34 ANSWER 4 OF 36 USPATFULL

ACCESSION NUMBER: 2002:140865 USPATFULL
TITLE: Vaccines comprising **oil bodies**
INVENTOR(S): Deckers, Harm M., Alberta, CANADA
Rooijen, Gijs Van, Alberta, CANADA
Boothe, Joseph, Alberta, CANADA
Goll, Janis, Alberta, CANADA
Moloney, Maurice M., Alberta, CANADA
Schryvers, Anthony B., Alberta, CANADA
Alcantara, Joenel, Alberta, CANADA
Hutchins, Wendy A., Alberta, CANADA

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002071846	A1	20020613
APPLICATION INFO.:	US 2001-880901	A1	20010615 (9)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2000-577147, filed on 24 May 2000, PENDING Continuation-in-part of Ser. No. US 1999-448600, filed on 24 Nov 1999, PATENTED Continuation-in-part of Ser. No. US 1998-84777, filed on 27 May 1998, PATENTED

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-75863P	19980225 (60)
	US 1998-75864P	19980225 (60)
	US 1997-47779P	19970528 (60)
	US 1997-47753P	19970527 (60)
	US 2000-212130P	20000616 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: BURNS DOANE SWECKER & MATHIS L L P, POST OFFICE BOX 1404, ALEXANDRIA, VA, 22313-1404
NUMBER OF CLAIMS: 27
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 10 Drawing Page(s)
LINE COUNT: 2348
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides novel adjuvants which comprise **oil bodies**. The invention also provides vaccine formulations comprising **oil bodies** and an antigen and methods for preparing the vaccines and the use of the vaccines to elicit an immune response.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L34 ANSWER 5 OF 36 USPATFULL

ACCESSION NUMBER: 2002:134571 USPATFULL
TITLE: Signal transduction stress-related proteins and methods of use in plants
INVENTOR(S): e Silva, Oswaldo da Costa, Apex, NC, UNITED STATES
Bohnert, Hans J., Tucson, AZ, UNITED STATES
van Thielen, Nocha, Cary, NC, UNITED STATES
Chen, Ruoying, Apex, NC, UNITED STATES
Ishitani, Manabu, Cary, NC, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002069432	A1	20020606
APPLICATION INFO.:	US 2001-828447	A1	20010406 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-196001P	20000407 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Lisa M. Cobern, SUTHERLAND ASBILL & BRENNAN LLP, 999 Peachtree Street, NE, Atlanta, GA, 30309-3996
NUMBER OF CLAIMS: 35
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 27 Drawing Page(s)
LINE COUNT: 3686
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A transgenic plant transformed by a Signal Transduction Stress-Related Protein (STSRP) coding nucleic acid, wherein expression of the nucleic acid sequence in the plant results in increased tolerance to environmental stress as compared to a wild type variety of the plant. Also provided are agricultural products, including seeds, produced by the transgenic plants. Also provided are isolated STSRPs, and isolated nucleic acid coding STSRPs, and vectors and host cells containing the latter.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L34 ANSWER 6 OF 36 USPATFULL
ACCESSION NUMBER: 2002:127602 USPATFULL
TITLE: GTP binding stress-related proteins and methods of use in plants
INVENTOR(S): Silva, Oswaldo da Costa e, Apex, NC, UNITED STATES
Bohnert, Hans J., Tucson, AZ, UNITED STATES
Thielen, Nocha Van, Cary, NC, UNITED STATES
Chen, Ruoying, Apex, NC, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2002066124	A1	20020530	
APPLICATION INFO.:	US 2001-828310	A1	20010406	(9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-196001P	20000407 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: SUTHERLAND ASBILL & BRENNAN LLP, 999 Peachtree Street, NE, Atlanta, GA, 30309-3996
NUMBER OF CLAIMS: 35
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 26 Drawing Page(s)
LINE COUNT: 3610
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A transgenic plant transformed by a GTP Binding Stress-Related Protein (GBSRP) coding nucleic acid, wherein expression of the nucleic acid sequence in the plant results in increased tolerance to environmental stress as compared to a wild type variety of the plant. Also provided are agricultural products, including seeds, produced by the transgenic plants. Also provided are isolated GBSRPs, and isolated nucleic acid coding GBSRPs, and vectors and host cells containing the latter.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L34 ANSWER 7 OF 36 USPATFULL
ACCESSION NUMBER: 2002:126304 USPATFULL
TITLE: Moss genes from physcomitrella patens encoding proteins involved in the synthesis of carbohydrates
INVENTOR(S): Lerchl, Jens, Ladenburg, GERMANY, FEDERAL REPUBLIC OF
Renz, Andreas, Limburgerhof, GERMANY, FEDERAL REPUBLIC OF
Ehrhardt, Thomas, Speyer, GERMANY, FEDERAL REPUBLIC OF
Reindl, Andreas, Birkenheide, GERMANY, FEDERAL REPUBLIC

OF
Cirpus, Petra, Mannheim, GERMANY, FEDERAL REPUBLIC OF
Bischoff, Friedrich, Mannheim, GERMANY, FEDERAL REPUBLIC OF
Frank, Markus, Ludwigshafen, GERMANY, FEDERAL REPUBLIC OF
Freund, Annette, Limburgerhof, GERMANY, FEDERAL REPUBLIC OF
Duwenig, Elke, Freiburg, GERMANY, FEDERAL REPUBLIC OF
Schmidt, Ralf-Michael, Kirrweiler, GERMANY, FEDERAL REPUBLIC OF
Reski, Ralf, Oberried, GERMANY, FEDERAL REPUBLIC OF

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2002064816	A1	20020530	
APPLICATION INFO.:	US 2000-734569	A1	20001213	(9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-171101P	19991216 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Herbert B. Keil, KEIL & WEINKAUF, 1101 Connecticut Ave., N.W., Washington, DC, 20036
NUMBER OF CLAIMS: 51
EXEMPLARY CLAIM: 1
LINE COUNT: 9199
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Isolated nucleic acid molecules, designated CMRP nucleic acid molecules, which encode novel CMRPs from Physcomitrella patens are described. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing CMRP nucleic acid molecules, and host cells and organisms into which the expression vectors have been introduced. The invention still further provides isolated CMRPs, mutated CMRPs, fusion proteins, antigenic peptides and methods for the improvement of production of a desired compound from transformed cells based on genetic engineering of CMRP genes in this organism.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L34 ANSWER 8 OF 36 USPATFULL
ACCESSION NUMBER: 2002:113913 USPATFULL
TITLE: Protein kinase stress-related proteins and methods of use in plants
INVENTOR(S): e Silva, Oswaldo da Costa, Apex, NC, UNITED STATES
Bohnert, Hans J., Tucson, NC, UNITED STATES
Thielen, Nocha Van, Cary, NC, UNITED STATES
Chen, Ruoying, Apex, NC, UNITED STATES
Sarria-Millan, Rodrigo, Morrisville, NC, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2002059662	A1	20020516	
APPLICATION INFO.:	US 2001-828313	A1	20010406	(9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-196001P	20000407 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Lisa M. Cobern, SUTHERLAND ASBILL & BRENNAN LLP, 999 Peachtree Street, NE, Atlanta, GA, 30309-3996
NUMBER OF CLAIMS: 31
EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 73 Drawing Page(s)
LINE COUNT: 3590
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A transgenic plant transformed by a Protein Kinase Stress-Related Protein (PKSRP) coding nucleic acid, wherein expression of the nucleic acid sequence in the plant results in increased tolerance to environmental stress as compared to a wild type variety of the plant. Also provided are agricultural products, including seeds, produced by the transgenic plants. Also provided are isolated PKSRPs, and isolated nucleic acid coding PKSRPs, and vectors and host cells containing the latter.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L34 ANSWER 9 OF 36 EUROPATFULL COPYRIGHT 2002 WILA

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

ACCESSION NUMBER: 1182259 EUROPATFULL EW 200209 FS OS
TITLE: Pyruvate:NADP+ oxidoreductase and uses thereof.
Pyruvat: NADP+ Oxidoreduktase und deren Anwendungen.
Pyruvate: NADP+ oxydoreductase et ses utilisations.
INVENTOR(S): Cirpus, Petra, Dr., Landteilstrasse 12, 68163 Mannheim, DE;
Lerchl, Jens, Dr., Im Steg 36, 68526 Ladenburg, DE;
Martin, William, Prof. Dr., Rilkestrasse 13, 41469 Neuss, DE;
Rotte, Carmen, Mueldtalerstrasse 2, 40221 Duesseldorf, DE
PATENT ASSIGNEE(S): BASF Plant Science GmbH, 67056 Ludwigshafen, DE
PATENT ASSIGNEE NO: 3071450
OTHER SOURCE: BEPA2002018 EP 1182259 A1 0075
SOURCE: Wila-EPZ-2002-H09-T1a
DOCUMENT TYPE: Patent
LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch
DESIGNATED STATES: R AT; R BE; R CH; R CY; R DE; R DK; R ES; R FI; R FR; R GB; R GR; R IE; R IT; R LI; R LU; R MC; R NL; R PT; R SE; R AL; R LT; R LV; R MK; R RO; R SI
PATENT INFO.PUB.TYPE: EPA1 EUROPAEISCHE PATENTANMELDUNG
PATENT INFORMATION:

PATENT NO	KIND	DATE
EP 1182259	A1	20020227
'OFFENLEGUNGS' DATE:		20020227
APPLICATION INFO.: EP 2000-117730		20000817

L34 ANSWER 10 OF 36 PCTFULL COPYRIGHT 2002 Univentio
ACCESSION NUMBER: 2002050289 PCTFULL ED 20020709 EW 200226
TITLE (ENGLISH): METHODS FOR THE PRODUCTION OF MULTIMERIC PROTEINS, AND RELATED COMPOSITIONS
TITLE (FRENCH): PROCEDES DE PRODUCTION DE PROTEINES MULTIMERIQUES, ET COMPOSITIONS ASSOCIEES
INVENTOR(S): VAN ROOIJEN, Gijs; DECKERS, Harm; HEIFETZ, Peter, Bernard; BRIGGS, Steven, P.; DALMIA, Bipin, Kumar; DEL VAL, Gregg; ZAPLACHINSKI, Steve; MOLONEY, Maurice
PATENT ASSIGNEE(S): SEMBIOSYS GENETICS, INC., for all designates States except US; SYNGENTA PARTICIPATIONS AG, for all designates States except US; VAN ROOIJEN, Gijs, for US only; DECKERS, Harm, for US only; HEIFETZ, Peter, Bernard, for US only; BRIGGS, Steven, P., for US only; DALMIA, Bipin, Kumar, for US only; DEL VAL, Gregg, for US only; ZAPLACHINSKI, Steve, for US only; MOLONEY, Maurice, for US only
AGENT: RAMOS, Robert, T.
LANGUAGE OF PUBL.: English

LANGUAGE OF FILING: English
DOCUMENT TYPE: Patent
PATENT INFORMATION:

	NUMBER	KIND	DATE
	WO 2002050289	A1	20020627

DESIGNATED STATES: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

APPLICATION INFO.:	WO 2001-US50240	A	20011219
PRIORITY INFO.:	US 2000-09/742,900		20001219
	US 2001-60/302,885		20010705
	US 2001-10/006,038		20011204

ABEN Improved methods for the production of multimeric-protein-complexes, such as redox proteins and immunoglobins, in association with **oil bodies** are described. The redox protein is enzymatically active when prepared in association with the **oil bodies**. Also provided are related nucleic acids, proteins, cells, plants, and compositions.

ABFR L'invention concerne des procedes ameliores de production de complexes de proteines multimeriques, tels que des proteines redox et des immunoglobulines, en association avec des corps lipidiques. La proteine redox est active au niveau enzymatique lorsqu'elle est preparee en association avec les corps lipidiques. L'invention concerne egalement des acides nucleiques, des proteines, des cellules, des plantes et des compositions associes.

L34 ANSWER 11 OF 36 PCTFULL COPYRIGHT 2002 Univentio
ACCESSION NUMBER: 2002046442 PCTFULL ED 20020624 EW 200224
TITLE (ENGLISH): PHOSPHATASE STRESS-RELATED PROTEINS AND METHODS OF USE IN PLANTS
TITLE (FRENCH): PROTEINES PHOSPHATASES RELATIVES AU STRESS ET PROCEDES D'UTILISATION DANS DES PLANTES
INVENTOR(S): COSTA, e, Silva, Oswaldo, da; BOHNERT, Hans, J.; ISHITANI, Manabu; VAN THIELEN, Nocha; CHAN, Ruoying
PATENT ASSIGNEE(S): BASF PLANT SCIENCE GMBH, for all designates States except US; COSTA, e, Silva, Oswaldo, da, for US only; BOHNERT, Hans, J., for US only; ISHITANI, Manabu, for US only; VAN THIELEN, Nocha, for US only; CHAN, Ruoying, for US only
AGENT: COBERN, Lisa, M.
LANGUAGE OF PUBL.: English
LANGUAGE OF FILING: English
DOCUMENT TYPE: Patent
PATENT INFORMATION:

	NUMBER	KIND	DATE
	WO 2002046442	A2	20020613

DESIGNATED STATES: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

APPLICATION INFO.:	WO 2001-US11253	A	20010406
PRIORITY INFO.:	US 2000-60/196,001		20000407

ABEN A transgenic plant transformed by a phosphatase stress-related protein

(PHSRP) coding nucleic acid, wherein expression of the nucleic acid sequence in the plant results in increased tolerance to environmental stress as compared to a wild type variety of the plant. Also provided are agricultural products, including seeds, produced by the transgenic plants. Also provided are isolated PHSRPs, and isolated nucleic acid coding PHSRPs, and vectors and host cells containing the latter.

ABFR L'invention concerne une plante transgenique transformee au moyen d'un acide nucleique codant pour une proteine phosphatase (PHSRP), dans laquelle l'expression de la sequence de l'acide nucleique resulte en une augmentation de la resistance aux agressions de l'environnement, en comparaison a une variete sauvage de la plante. Elle concerne aussi des produits agricoles, y compris des semences, produites par les plantes transgeniques. Elle concerne enfin des proteines PHSRP isolees, des acides nucleiques isoles codant pour des proteines PHSRP, ainsi que des vecteurs et des cellules hotes contenant ces proteines.

L34 ANSWER 12 OF 36 PCTFULL COPYRIGHT 2002 Univentio

ACCESSION NUMBER: 2002014522 PCTFULL ED 20020711 EW 200208

TITLE (ENGLISH): PYRUVATE:NADP+ OXIDOREDUCTASE AND USES THEREOF

TITLE (FRENCH): PYRUVATE:NADP+OXYDOREDUCTASE ET LEURS UTILISATIONS

INVENTOR(S): CIRPUS, Petra; LERCHL, Jens; MARTIN, William; ROTTE, Carmen

PATENT ASSIGNEE(S): BASF PLANT SCIENCE GMBH, for all designates States except US; CIRPUS, Petra, for US only; LERCHL, Jens, for US only; MARTIN, William, for US only; ROTTE, Carmen, for US only

AGENT: BIEBERBACH, Andreas

LANGUAGE OF PUBL.: English

LANGUAGE OF FILING: English

DOCUMENT TYPE: Patent

PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2002014522	A1	20020221

DESIGNATED STATES AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

APPLICATION INFO.: WO 2001-EP9317 A 20010811

PRIORITY INFO.: EP 2000-00117730.2 20000817

ABEN Provided are polynucleotides encoding Pyruvate:NADP+ oxidoreductases (PNO) as well as methods for obtaining the same. Furthermore, vectors comprising said polynucleotides are described, wherein the polynucleotides are operatively linked to expression control sequences allowing the expression in prokaryotic and/or eukaryotic host cells. In addition, polypeptides encoded by said polynucleotides, antibodies to said polypeptides and methods for their production are provided. Further described are methods for increasing the acetyl CoA synthesis as well as methods for the production of fatty acids, carotenoids, isoprenoids, vitamins, lipids, wax esters, (poly)saccharides and/or polyhydroxyalkanoates, or its metabolism products, in particular, steroid hormones, prostaglandin, cholesterol, triacylglycerols, bile acids or ketone bodies, comprising the expression of the polynucleotide or polypeptide described herein in a host cell or plant cell, plant tissue or plant. Methods for the identification of compounds being capable of activating or inhibiting PNO are described as well. Further, a pharmaceutical composition comprising the afore-mentioned inhibiting compounds and antibodies is described. Furthermore, transgenic plants, plant tissues, and plant cells containing the above described polynucleotides and vectors are described as well as the use of the mentioned polynucleotides, vectors, polypeptides, antibodies, and/or

compounds identified by the method of the invention in the production of acetyl CoA metabolism products, e.g., fatty acids, carotenoids, isoprenoids, vitamins, lipids, (poly)saccharides, wax esters, and/or polyhydroxyalkanoates, and/or its metabolism products, in particular, steroid hormones, prostaglandin, cholesterol, triacylglycerols, bile acids and/or ketone bodies and pharmaceutical compositions.

ABFR La presente invention concerne des polynucleotides codant pour le Pyruvate: NADP+ (PNO) ainsi que des procedes d'obtention desdits polynucleotides. L'invention concerne egalement des vecteurs comprenant lesdits polynucleotides, dans lesquels les polynucleotides sont lies en fonctionnement a des sequences de controle d'expression permettant l'expression dans des cellules hotes procaryotes et/ou eucaryotes. L'invention concerne en outre des polypeptides codes par lesdits polynucleotides, des anticorps auxdits polypeptides and leurs procedes de production. L'invention concerne encore des procedes permettant d'accroitre la synthese d'acetyl-CoA ainsi que des procedes de production d'acides gras, de carotenoides, d'isoprenoides, de vitamines, de lipides, des esters cireux, des (poly)saccharides et/ou des polyhydroxyalcanoates, ou ses produits de metabolisme, notamment des hormones steroides, la prostaglandine, le cholesterol, les triacylglycerols, les acides biliaires ou les corps cetoniques, comprenant l'expression dudit polynucleotide ou polypeptide dans une cellule hote ou une cellule vegetale, dans un tissu vegetal ou une plante. L'invention concerne aussi des procedes d'identification de composes capables d'activer ou d'inhiber les PNO. Par ailleurs, l'invention a trait a une composition pharmaceutique comprenant lesdits composes inhibiteurs et lesdits anticorps decrits plus haut. L'invention a aussi trait a des plantes transgeniques, des tissus vegetaux et des cellules vegetales contenant lesdits polynucleotides et lesdits vecteurs ainsi que l'utilisation des polynucleotides, des vecteurs, des polypeptides, des anticorps et/ou des composes identifies par le procede de l'invention dans la production de produits de metabolisme de l'acetyl-CoA, par exemple, des acides gras, des carotenoides, des isoprenoides, des vitamines, des lipides, des (poly)saccharides, des esters cireux, et/ou des polyhydroxyalcanoates, et/ou ses produits de metabolisme, notamment des hormones steroides, la prostaglandine, le cholesterol, les triacylglycerols, les acides biliaires et/ou des corps cetoniques et des compositions pharmaceutiques.

L34 ANSWER 13 OF 36 PROMT COPYRIGHT 2002 Gale Group

ACCESSION NUMBER: 2001:406038 PROMT
TITLE: GLASS INDUSTRY INDEX.
SOURCE: Glass International, (March 2001) Vol. 24, No. 2, pp. S37. ISSN: 0143-7836.
PUBLISHER: DMG Business Media Ltd.
DOCUMENT TYPE: Newsletter
LANGUAGE: English
WORD COUNT: 79545
FULL TEXT IS AVAILABLE IN THE ALL FORMAT

AB Aachener Chemische Werke GmbH
THIS IS THE FULL TEXT: COPYRIGHT 2001 DMG Business Media Ltd.

Subscription: 120.00 British pounds per year. Published quarterly.
Queensway House, 2 Queensway, Redhill, Surrey RH1 1QS., United Kingdom

L34 ANSWER 14 OF 36 USPATFULL DUPLICATE 1
ACCESSION NUMBER: 2001:153191 USPATFULL
TITLE: Expression of somatotropin in plant seeds
INVENTOR(S): Moloney, Maurice M., Calgary, Canada
Habibi, Hamid R., Calgary, Canada
PATENT ASSIGNEE(S): SemBioSys Genetics Inc., Calgary, Canada (non-U.S. corporation)

NUMBER KIND DATE

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6288304	B1	20010911
APPLICATION INFO.:	US 1998-210843		19981218 (9)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1997-846021, filed on 25 Apr 1997, now patented, Pat. No. US 5948682 Continuation-in-part of Ser. No. US 1994-366783, filed on 30 Dec 1994, now patented, Pat. No. US 5650554 Continuation-in-part of Ser. No. US 1993-142418, filed on 16 Nov 1993, now abandoned Continuation-in-part of Ser. No. US 1991-659835, filed on 22 Feb 1991, now abandoned

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Fox, David T.
LEGAL REPRESENTATIVE: Bereskin & Parr, Gravelle, Micheline
NUMBER OF CLAIMS: 19
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Figure(s); 4 Drawing Page(s)
LINE COUNT: 684
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides a method of preparing somatotropins in plants and transgenic plant seeds containing somatotropins. The method provides an economical way to produce somatotropins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L34 ANSWER 15 OF 36 USPATFULL

ACCESSION NUMBER: 2001:231163 USPATFULL
TITLE: Process of expressing and isolating recombinant proteins and recombinant protein products from plants, plant derived tissues or cultured plant cells
INVENTOR(S): Shani, Ziv, Rehovot, Israel
Shoseyov, Oded, Karme Yosef, Israel
PATENT ASSIGNEE(S): CBD Technologies Ltd., Rehovot, Israel (non-U.S. corporation)
Yissum Research and Development Company of the Hebrew University of Jerusalem, Jerusalem, Israel (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6331416	B1	20011218
APPLICATION INFO.:	US 1999-329234		19990610 (9)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Campbell, Bruce R.
ASSISTANT EXAMINER: Woitach, Joseph T.
NUMBER OF CLAIMS: 11
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 1 Drawing Figure(s); 1 Drawing Page(s)
LINE COUNT: 1884
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process of expressing a recombinant protein in a plant and of isolating the recombinant protein from the plant, the process is effected by (a) providing a plant, a plant derived tissue or cultured plant cells expressing a fusion protein including the recombinant protein and a cellulose binding peptide being fused thereto, the fusion protein being compartmentalized within cells of the plant, plant derived tissue or cultured plant cells, so as to be sequestered from cell walls of the cells of the plant, plant derived tissue or cultured plant cells; (b) homogenizing the plant, plant derived tissue or cultured plant cells, so as to bring into contact the fusion protein with a cellulosic matter of the plant, plant derived tissue or cultured plant cells, to thereby effect affinity binding of the fusion protein via the cellulose binding peptide to the cellulosic matter, thereby obtaining a fusion

protein cellulosic matter complex; and (c) isolating the fusion protein cellulosic matter complex.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L34 ANSWER 16 OF 36 USPATFULL

ACCESSION NUMBER:	2001:121657 USPATFULL
TITLE:	Methods and a maize acetyl CoA carboxylase gene for altering the oil content of plants
INVENTOR(S):	Gengenbach, Burle G., St. Paul, MN, United States Somers, David A., Roseville, MN, United States Wyse, Donald L., Wyoming, MN, United States Gronwald, John W., Shoreview, MN, United States Egli, Margaret A., Roseville, MN, United States Lutz, Sheila M., St. Paul, MN, United States
PATENT ASSIGNEE(S):	Regents of the University of Minnesota, Minneapolis, MN, United States (U.S. corporation) The United States of America, Washington, DC, United States (U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6268550	B1	20010731
APPLICATION INFO.:	US 1996-695421		19960812 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-417089, filed on 5 Apr 1995, now patented, Pat. No. US 6069298 Continuation-in-part of Ser. No. US 1993-14326, filed on 5 Feb 1993, now patented, Pat. No. US 5498544		

DOCUMENT TYPE:	Utility
FILE SEGMENT:	GRANTED
PRIMARY EXAMINER:	Nelson, Amy J.
LEGAL REPRESENTATIVE:	Schwegman, Lundberg, Woessner & Kluth, P.A.
NUMBER OF CLAIMS:	25
EXEMPLARY CLAIM:	1
NUMBER OF DRAWINGS:	24 Drawing Figure(s); 21 Drawing Page(s)
LINE COUNT:	2568

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides the complete cDNA sequence of maize acetyl CoA carboxylase and methods for altering the oil content of plants by introducing and expressing a plant acetyl CoA carboxylase gene in plant cells. The method of altering the oil content in a plant includes the steps of introducing an expression cassette into plant cells and expressing the acetyl CoA carboxylase gene in an amount effective to alter the oil content of the cells.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L34 ANSWER 17 OF 36 USPATFULL

ACCESSION NUMBER:	2001:60117 USPATFULL
TITLE:	Transgenic plants expressing maize acetyl COA carboxylase gene and method of altering oil content
INVENTOR(S):	Gengenbach, Burle G., St. Paul, MN, United States Somers, David A., Roseville, MN, United States Wyse, Donald L., Wyoming, MN, United States Gronwald, John W., Shoreview, MN, United States Egli, Margaret A., Roseville, MN, United States Lutz, Sheila M., St. Paul, MN, United States
PATENT ASSIGNEE(S):	Regents of the University of Minnesota, Minneapolis, MN, United States (U.S. corporation) The United States of America, Washington, DC, United States (U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6222099	B1	20010424

	WO 9631609	19961010	
APPLICATION INFO.:	US 1998-930285	19980413	(8)
	WO 1996-US4625	19960404	
		19980413	PCT 371 date
		19980413	PCT 102(e) date

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1995-417089, filed on 5 Apr 1995, now patented, Pat. No. US 6069298
Continuation-in-part of Ser. No. US 1993-14326, filed on 5 Feb 1993, now patented, Pat. No. US 5498544

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Nelson, Amy J.
LEGAL REPRESENTATIVE: Schwegman, Lundberg, Woessner & Kluth, P.A.
NUMBER OF CLAIMS: 34
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 35 Drawing Figure(s); 29 Drawing Page(s)
LINE COUNT: 2922
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides a complete cDNA sequence and partial DNA sequences encoding maize acetyl CoA carboxylase and methods for altering the oil content of plants by introducing and expressing a maize acetyl CoA carboxylase gene in plant cells.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L34 ANSWER 18 OF 36 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 2002:118891 BIOSIS
DOCUMENT NUMBER: PREV200200118891
TITLE: The treatment of purified maize **oil bodies** with organic solvents and exogenous diacylglycerol allows the detection and solubilization of diacylglycerol acyltransferase.
AUTHOR(S): Valencia-Turcotte, Lilian; Rodriguez-Sotres, Rogelio (1)
CORPORATE SOURCE: (1) Departamento de Bioquimica, Facultad de Quimica, Universidad Nacional Autonoma de Mexico, Cd. Universitaria, 04510, Mexico, DF: sotres@servidor.unam.mx Mexico
SOURCE: Biochimica et Biophysica Acta, (30 November, 2001) Vol. 1534, No. 1, pp. 14-26. print.
ISSN: 0006-3002.
DOCUMENT TYPE: Article
LANGUAGE: English

AB In spite of its importance in the biosynthesis of reserve oils in plants, diacylglycerol acyltransferase (DAGAT, EC 2.3.1.20) has not been purified to homogeneity, and its study has remained incomplete. We found that the microsomal preparations from developing maize embryos contained substantial amounts of endogenous diacylglycerol (DAG). A solubilization procedure for extracting DAGAT from the microsomes (D. Little, R. Weselake, K. Pomeroy, S.T. Furukawa, J. Bagu, Biochem. J. 304 (1994)) was ineffective in eliminating the endogenous DAG, even after gel filtration. DAG removal through the preparation of acetone powders from the embryos led to the loss of DAGAT activity. Labelled triacylglycerol (TAG) was produced in the standard DAGAT assay when labelled DAG was supplied in benzene solution to the freeze-dried microsomes and the sample was dried and resuspended in an aqueous buffer. In contrast, no labelled TAG was produced when a similar sample supplied with non-labelled DAG was assayed with emulsified labelled DAG and acyl-CoA. Repeated washing of the microsomal freeze-dried fraction with benzene resulted in a complete loss of DAGAT activity in the standard assay, but the activity was restored by the addition of DAG plus phosphatidylcholine or Tween 20 in benzene. Although DAGAT has been reported to be confined mainly to the endoplasmic reticulum, we found that DAGAT activity was high in the purified **oil bodies** from both developing and mature maize embryos and was not removed by repeated washing with 6 M urea. The DAGAT activity was restored from delipidated **oil bodies** and from microsomes after the preparations had been resuspended in methanol/acetic

acid/water (1:1:1, v/v). Although most of the proteins in the suspension were eluted as a single peak at the void volume after gel filtration chromatography, DAGAT activity was found in later fractions. SDS-PAGE of the peak activity fraction revealed no protein bands after silver staining, and the finding suggest that DAGAT protein is of low abundance and has a high kcat.

L34 ANSWER 19 OF 36 USPATFULL

ACCESSION NUMBER:	2000:153501 USPATFULL
TITLE:	Methods for expressing a maize acetyl CoA carboxylase gene in host cells and encoded protein produced thereby
INVENTOR(S):	Gengenbach, Burle G., St. Paul, MN, United States Somers, David A., Roseville, MN, United States Wyse, Donald L., Wyoming, MN, United States Gronwald, John W., Shoreview, MN, United States Egli, Margaret A., Roseville, MN, United States Lutz, Sheila M., St. Paul, MN, United States
PATENT ASSIGNEE(S):	Regents of the University of Minnesota, Minneapolis, MN, United States (U.S. corporation) United States of America, Washington, DC, United States (U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6146867		20001114
APPLICATION INFO.:	US 1996-695651		19960812 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1995-417089, filed on 5 Apr 1995 which is a continuation-in-part of Ser. No. US 1993-14326, filed on 5 Feb 1993, now patented, Pat. No. US 5498544

DOCUMENT TYPE:	Utility
FILE SEGMENT:	Granted
PRIMARY EXAMINER:	Nelson, Amy
LEGAL REPRESENTATIVE:	Schwegman, Lundberg, Woessner & Kluth P.A.
NUMBER OF CLAIMS:	21
EXEMPLARY CLAIM:	1,20
NUMBER OF DRAWINGS:	21 Drawing Figure(s); 21 Drawing Page(s)
LINE COUNT:	3149

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides the complete cDNA sequence of maize acetyl CoA carboxylase and a method introducing and expressing a plant acetyl CoA carboxylase gene in plant cells. The method includes the steps of introducing an expression cassette encoding a plant acetyl CoA carboxylase or an antisense DNA sequence complementary to the sequence for a plant acetyl CoA carboxylase gene operably linked to a promoter functional in plant cells, into the cells of a plant tissue and expressing the plant acetyl CoA carboxylase gene. The expression cassette can also be introduced into other host cells to increase yield of a plant acetyl CoA carboxylase crystallized enzyme.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L34 ANSWER 20 OF 36 USPATFULL

ACCESSION NUMBER:	2000:137801 USPATFULL
TITLE:	Enzymatic antioxidant of allene oxide for lipid peroxidation in biological systems
INVENTOR(S):	Backhaus, Ralph A., Phoenix, AZ, United States Pan, Zhiqiang, Davis, CA, United States Herickhoff, Lisa A., Fort Collins, CO, United States
PATENT ASSIGNEE(S):	Arizona Board of Regents, Tempe, AZ, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6132711		20001017

APPLICATION INFO.: US 1997-896162 19970717 (8)
RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1997-863726, filed on 27 May 1997, now abandoned which is a continuation of Ser. No. US 1994-240012, filed on 9 May 1994, now patented, Pat. No. US 5633433, issued on 27 May 1997 which is a continuation of Ser. No. US 1993-872, filed on 5 Jan 1993, now abandoned which is a continuation-in-part of Ser. No. US 1991-687456, filed on 17 Apr 1991, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: McElwain, Elizabeth F.
ASSISTANT EXAMINER: Zaghmout, Ousama M-Faiz
LEGAL REPRESENTATIVE: Baker Botts LLP
NUMBER OF CLAIMS: 2
EXEMPLARY CLAIM: 1,2
NUMBER OF DRAWINGS: 41 Drawing Figure(s); 33 Drawing Page(s)
LINE COUNT: 2726
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to the isolation and use of an allene oxide synthase enzyme as an antioxidant of lipid peroxides in biological systems. It is based, at least in part, on the discovery that antioxidation is accomplished enzymatically by RPP, a species of allene oxide synthase, in guayule, and on the discovery that the allene oxide synthase RPP disrupts the chain reaction and propagation steps of lipid peroxidation. The present further invention relates to the use of an allene oxide synthase to result in a time-dependent disappearance of conjugated dienes (i.e. lipid hydroperoxides). The allene oxide synthase rapidly converts free or esterified fatty acid peroxides or hydroperoxides into their corresponding epoxides, which, in turn are converted to ketols. The lipid peroxide and hydroperoxide substrates for this enzyme are known to be toxic to biological organisms and can generate additional peroxides by chain propagation reactions. In the presence of an allene oxide synthase these compounds are rapidly and effectively converted to allene oxides (the epoxide), thus breaking the chain reaction.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L34 ANSWER 21 OF 36 USPATFULL
ACCESSION NUMBER: 2000:67887 USPATFULL
TITLE: Methods and an acetyl CoA carboxylase gene for conferring herbicide tolerance and an alteration in oil content of plants
INVENTOR(S): Gengenbach, Burle G., St. Paul, MN, United States
Somers, David A., Roseville, MN, United States
Wyse, Donald L., Wyoming, MN, United States
Gronwald, John W., Shoreview, MN, United States
Egli, Margaret A., Roseville, MN, United States
Lutz, Sheila M., St. Paul, MN, United States
PATENT ASSIGNEE(S): Regents of the University of Minnesota, Minneapolis, MN, United States (U.S. corporation)
The United States of America, Washington, DC, United States (U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6069298		20000530
APPLICATION INFO.:	US 1995-417089		19950405 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1993-14326, filed on 5 Feb 1993, now patented, Pat. No. US 5498544
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Fox, David T.
ASSISTANT EXAMINER: Nelson, Amy J.

LEGAL REPRESENTATIVE: Schwegman, Lundberg, Woessner & Kluth P.A.
NUMBER OF CLAIMS: 11
EXEMPLARY CLAIM: 5,6,9
NUMBER OF DRAWINGS: 22 Drawing Figure(s); 21 Drawing Page(s)
LINE COUNT: 3243
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides the complete cDNA sequence of maize acetyl CoA carboxylase and methods for conferring herbicide tolerance and/or altering the oil content of plants by introducing and expressing a plant acetyl CoA carboxylase gene in plant cells. The method of imparting herbicide tolerance to a plant includes the steps of introducing an expression cassette encoding a plant acetyl CoA carboxylase or an antisense DNA sequence complementary to the sequence for a plant acetyl CoA carboxylase gene operably linked to a promoter functional in plant cells, into the cells of a plant tissue and expressing the plant acetyl CoA carboxylase gene in an amount effective to render the acetyl CoA carboxylase and/or plant cell substantially tolerant to the herbicides. The method of altering the oil content in a plant includes the steps of introducing an expression cassette into plant cells and expressing the acetyl CoA carboxylase gene in an amount effective to alter the oil content of the cells. The expression cassette can also be introduced into other host cells to increase yield of a plant acetyl CoA carboxylase so that crystallized enzyme can be used to screen and identify other herbicides that bind to and inhibit the enzyme.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L34 ANSWER 22 OF 36 USPATFULL
ACCESSION NUMBER: 2000:15505 USPATFULL
TITLE: Granule-associated proteins and methods for their use in polyhydroxyalkanoate biosynthesis
INVENTOR(S): Steinbuchel, Alexander, Altenberge, Germany, Federal Republic of
Pieper-Furst, Ursula, Gottingen, Germany, Federal Republic of
PATENT ASSIGNEE(S): Monsanto Company, St. Louis, MO, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6022729		20000208
APPLICATION INFO.:	US 1996-702870		19960826 (8)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1996-598175, filed on 7 Feb 1996, now abandoned which is a continuation of Ser. No. US 1995-500735, filed on 11 Jul 1995, now abandoned

	NUMBER	DATE
PRIORITY INFORMATION:	GB 1994-14506	19940718

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Robinson, Douglas W.
ASSISTANT EXAMINER: Nelson, Amy J.
LEGAL REPRESENTATIVE: Bond, Gary M.Arnold, White & Durkee
NUMBER OF CLAIMS: 5
EXEMPLARY CLAIM: 3
NUMBER OF DRAWINGS: 40 Drawing Figure(s); 13 Drawing Page(s)
LINE COUNT: 1680
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The N-terminal amino acid sequence of the polyhydroxyalkanoic acid (PHA) granule-associated M.sub.r 15,500 protein of Rhodococcus ruber, which is referred to as the GA14-protein, was analysed. The sequence revealed that the corresponding structural gene is represented by the open reading frame 3 encoding a protein with a calculated M.sub.r 14,175

which was recently localized downstream of the PHA synthase gene (Pieper, U., and A. Steinbuchel, 1992. FEMS Microbiol. Lett. 96: 73-80). A recombinant strain of Escherichia coli XL1-Blue carrying the hybrid plasmid (pSKXA10*) with ORF3 overexpressed the GA14-protein. The GA14-protein was subsequently purified in a three-step procedure including chromatography on DEAE-Sephacel, Phenyl-Sepharose CL-4B and Superose 12. Determination of the molecular weight by gel filtration as well as electron microscopic studies make a tetrameric structure of the recombinant, native GA14-protein most likely. Immunoelectron microscopy demonstrated a localization of the GA14-protein at the periphery of PHA granules as well as close to the cell membrane in R. ruber. Investigations of PHA-leaky and PHA-negative mutants of R. ruber indicated that the expression of the GA14-protein depended strongly on PhA synthesis.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L34 ANSWER 23 OF 36 EUROPATFULL COPYRIGHT 2002 WILA

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

ACCESSION NUMBER: 1059354 EUROPATFULL EW 200050 FS OS
TITLE: Sequence-determined DNA fragments and corresponding polypeptides encoded thereby.
DNS-fragmente mit bestimmter Sequenz und die dadurch kodierte Polypeptide.
Fragments d'ADN avec des sequences determinees et polypeptides encodees par lesdits fragments.
INVENTOR(S): Alexandrov, Nickolai, 1404 Oak Trail St., Thousand Oaks, CA 91320, US;
Troukhan, Maxim E., 1675 Amberwood Dr. No. 2, South Pasadena, CA 91030, US
PATENT ASSIGNEE(S): Ceres Incorporated, 3007 Malibu Canyon Road, Malibu, CA 90265, US
PATENT ASSIGNEE NO: 2967260
AGENT: Bannerman, David Gardner et al., Withers & Rogers, Goldings House, 2 Hays Lane, London SE1 2HW, GB
AGENT NUMBER: 28001
OTHER SOURCE: BEPA2000096 EP 1059354 A2 0418
SOURCE: Wila-EPZ-2000-H50-T1a
DOCUMENT TYPE: Patent
LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch
DESIGNATED STATES: R AT; R BE; R CH; R CY; R DE; R DK; R ES; R FI; R FR; R GB; R GR; R IE; R IT; R LI; R LU; R MC; R NL; R PT; R SE; R AL; R LT; R LV; R MK; R RO; R SI
PATENT INFO.PUB.TYPE: EPA2 EUROPAEISCHE PATENTANMELDUNG
PATENT INFORMATION:

PATENT NO	KIND	DATE
EP 1059354	A2	20001213

'OFFENLEGUNGS' DATE: 20001213
APPLICATION INFO.: EP 2000-304943 20000612
PRIORITY APPLN. INFO.: US 1999-138540 19990610
US 1999-138847 19990610

L34 ANSWER 24 OF 36 EUROPATFULL COPYRIGHT 2002 WILA

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

ACCESSION NUMBER: 1033405 EUROPATFULL EW 200036 FS OS
TITLE: Sequence-determined DNA fragments and corresponding polypeptides encoded thereby.
DNS-fragmente mit bestimmter Sequenz und die dadurch kodierte Polypeptide.
Fragments d'ADN avec des sequences determinees et

polypeptides encodees par lesdits fragments.

INVENTOR(S): Alexandrov, Nickolai, 1404 Oak Trail St., Thousand Oaks, CA 91320, US;
Brover, Vyacheslav, 5916 N. Las Virgenes Rd. #590, Calabasas, CA 91302, US;
Chen, Xianfeng, 1705 S. Westgate Ave. #2, Los Angeles, CA 90025, US;
Subramanian, Gopalakrishnan, 4205 Peach Slope Rd., Moorpark, CA 93021, US;
Troukhan, Maxim E., 1675 Amberwood Dr. #2, South Pasadena, CA 91030, US;
Zheng, Liansheng, 12333 Wild Turkey Court, #B, Creve Coeur, MO 63141, US;
Dumas, J., US

PATENT ASSIGNEE(S): Ceres Incorporated, 3007 Malibu Canyon Road, Malibu, CA 90265, US

PATENT ASSIGNEE NO: 2967260

AGENT: Bannerman, David Gardner et al., Withers & Rogers, Goldings House, 2 Hays Lane, London SE1 2HW, GB

AGENT NUMBER: 28001

OTHER SOURCE: BEPA2000068 EP 1033405 A2 0344

SOURCE: Wila-EPZ-2000-H36-T1a

DOCUMENT TYPE: Patent

LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch

DESIGNATED STATES: R AT; R BE; R CH; R CY; R DE; R DK; R ES; R FI; R FR; R GB; R GR; R IE; R IT; R LI; R LU; R MC; R NL; R PT; R SE; R AL; R LT; R LV; R MK; R RO; R SI

PATENT INFO.PUB.TYPE: EPA2 EUROPAEISCHE PATENTANMELDUNG

PATENT INFORMATION:

	PATENT NO	KIND	DATE
	EP 1033405	A2	20000906
'OFFENLEGUNGS' DATE:			20000906
APPLICATION INFO.:	EP 2000-301439		20000225
PRIORITY APPLN. INFO.:	US 1999-121825		19990225
	US 1999-123180		19990305
	US 1999-123548		19990309
	US 1999-125788		19990323
	US 1999-126264		19990325
	US 1999-126785		19990329
	US 1999-127462		19990401
	US 1999-128234		19990406
	US 1999-128714		19990408
	US 1999-129845		19990416
	US 1999-130077		19990419
	US 1999-130449		19990421
	US 1999-130891		19990423
	US 1999-130510		19990423
	US 1999-131449		19990428
	US 1999-132407		19990430
	US 1999-132048		19990430
	US 1999-132484		19990504
	US 1999-132485		19990505
	US 1999-132487		19990506
	US 1999-132486		19990506
	US 1999-132863		19990507
	US 2000-176866		20000119
	US 2000-176867		20000119
	US 2000-176910		20000119
	US 2000-178166		20000126
	US 2000-178545		20000127
	US 2000-178547		20000127
	US 2000-177666		20000127
	US 2000-178546		20000127
	US 2000-178544		20000127

US 2000-178754	20000128
US 2000-178755	20000128
US 2000-179388	20000201
US 2000-179395	20000201
US 2000-180139	20000203
US 2000-180039	20000203
US 2000-180206	20000204
US 2000-180207	20000204
US 2000-180696	20000207
US 2000-180695	20000207
US 2000-181214	20000209
US 2000-181228	20000209
US 2000-181551	20000210
US 2000-181476	20000210
US 2000-182478	20000215
US 2000-182477	20000215
US 2000-182516	20000215
US 2000-182512	20000215
US 2000-183166	20000217
US 2000-183165	20000217

L34 ANSWER 25 OF 36 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 2001:28269 BIOSIS
DOCUMENT NUMBER: PREV200100028269
TITLE: Transgenic plants as factories for biopharmaceuticals.
AUTHOR(S): Giddings, Glynis (1); Allison, Gordon; Brooks, Douglas; Carter, Adrian
CORPORATE SOURCE: (1) Institute of Biological Sciences, University of Wales, Aberystwyth, Cledwyn Building, Aberystwyth, Ceredigion, SY23 3DD: gdg@aber.ac.uk UK
SOURCE: Nature Biotechnology, (November, 2000) Vol. 18, No. 11, pp. 1151-1155. print.
ISSN: 1087-0156.
DOCUMENT TYPE: Article
LANGUAGE: English
SUMMARY LANGUAGE: English
AB Plants have considerable potential for the production of biopharmaceutical proteins and peptides because they are easily transformed and provide a cheap source of protein. Several biotechnology companies are now actively developing, field testing, and patenting plant expression systems, while clinical trials are proceeding on the first biopharmaceuticals derived from them. One transgenic plant-derived biopharmaceutical, hirudin, is now being commercially produced in Canada for the first time. Product **purification** is potentially an expensive process, and various methods are currently being developed to overcome this problem, including oleosin-fusion technology, which allows extraction with **oil bodies**. In some cases, delivery of a biopharmaceutical product by direct ingestion of the modified plant potentially removes the need for **purification**. Such biopharmaceuticals and edible vaccines can be stored and distributed as seeds, tubers, or fruits, making immunization programs in developing countries cheaper and potentially easier to administer. Some of the most expensive biopharmaceuticals of restricted availability, such as glucocerebrosidase, could become much cheaper and more plentiful through production in transgenic plants.

L34 ANSWER 26 OF 36 PROMT COPYRIGHT 2002 Gale Group

ACCESSION NUMBER: 1999:68088 PROMT
TITLE: Manufacturers Alphabetic Listings.(Directory)
SOURCE: Air Conditioning, Heating & Refrigeration News, (4 Jan 1999) Vol. 206, No. 1, pp. 38(1).
ISSN: 0002-2276.
PUBLISHER: Business News Publishing Company
DOCUMENT TYPE: Newsletter
LANGUAGE: English

WORD COUNT: 84481
FULL TEXT IS AVAILABLE IN THE ALL FORMAT

AB A
THIS IS THE FULL TEXT: COPYRIGHT 1999 Business News Publishing Company

L34 ANSWER 27 OF 36 USPATFULL
ACCESSION NUMBER: 1999:146305 USPATFULL
TITLE: DNA sequences encoding phytases of ruminal microorganisms
INVENTOR(S): Cheng, Kuo Joan, Lethbridge, Canada
Selinger, Leonard Brent, Lethbridge, Canada
Yanke, Lindsey Jay, Lethbridge, Canada
Bae, Hee Dong, Seoul, Korea, Republic of
Zhou, Luming, Salt Lake City, UT, United States
Forsberg, Cecil Wallace, Guelph, Canada
PATENT ASSIGNEE(S): Her Majesty the Queen in right of Canada, as represented by the Dept. of Agriculture & Agri-Food Canada, Lethbridge, Canada (non-U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5985605		19991116
APPLICATION INFO.:	US 1997-862531		19970523 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1996-744779, filed on 6 Nov 1996

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-19735P	19960614 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Mosher, Mary E.
LEGAL REPRESENTATIVE: Greenlee, Winner & Sullivan, P.C.
NUMBER OF CLAIMS: 59
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 21 Drawing Figure(s); 14 Drawing Page(s)
LINE COUNT: 2106
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Novel phytases derived from ruminal microorganisms are provided. The phytases are capable of catalyzing the release of inorganic phosphorus from phytic acid. Preferred sources of phytases include Selenomonas, Prevotella, Treponema and Megasphaera. A purified and isolated DNA encoding a phytase of Selenomonas ruminantium JY35 (ATCC 55785) is provided. Recombinant expression vectors containing DNA's encoding the novel phytases and host cells transformed with DNA's encoding the novel phytases are also provided. The novel phytases are useful in a wide range of applications involving the dephosphorylation of phytate, including, among other things, use in animal feed supplements.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L34 ANSWER 28 OF 36 USPATFULL
ACCESSION NUMBER: 1999:106359 USPATFULL
TITLE: Preparation of heterologous proteins on **oil bodies**
INVENTOR(S): Moloney, Maurice M., Calgary, Canada
PATENT ASSIGNEE(S): Sembiosys Genetics Inc., Calgary, Canada (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5948682		19990907
APPLICATION INFO.:	US 1997-846021		19970425 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1994-366783, filed on 30 Dec 1994, now patented, Pat. No. US 5650554 which

is a continuation-in-part of Ser. No. US 1993-142418, filed on 16 Nov 1993, now abandoned which is a continuation-in-part of Ser. No. US 1991-659835, filed on 22 Feb 1991, now abandoned

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Fox, David T.
LEGAL REPRESENTATIVE: Bereskin & Parr
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 8 Drawing Figure(s); 10 Drawing Page(s)
LINE COUNT: 3217
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to the use of a class of genes called oil body protein genes that have unique features. The discovery of these features allowed the invention of methods for the production of recombinant proteins wherein a protein of interest can be easily separated from other host cell components. The invention is further exemplified by methods for exploitation of the unique characteristics of the oil body proteins and oil body genes for expression of polypeptides of interest in many organisms, particularly plant seeds. Said polypeptides may include but are not limited to: seed storage proteins, enzymes, bioactive peptides, antibodies and the like. The invention can also be modified to recover recombinant polypeptides fused to oil body proteins from non-plant host cells. Additionally the invention provides a method of using recombinant proteins associated with seed **oil bodies** released during seed germination for expression of polypeptides that afford protection to seedlings from pathogens. Finally, the persistent association of oil body proteins with the oil body can be further utilized to develop a biological means to create novel immobilized enzymes useful for bioconversion of substrates.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L34 ANSWER 29 OF 36 USPATFULL
ACCESSION NUMBER: 1999:96254 USPATFULL
TITLE: Phytases of ruminal microorganisms
INVENTOR(S): Cheng, Kuo Joan, Lethbridge, Canada
Selinger, Leonard Brent, Lethbridge, Canada
Yanke, Lindsey Jay, Lethbridge, Canada
Bae, Hee Dong, Seoul, Korea, Republic of
Zhou, Luming, Salt Lake City, UT, United States
Forsberg, Cecil Wallace, Guelph, Canada
PATENT ASSIGNEE(S): Her Majesty the Queen in right of Canada, as represented by the Dept. of Agriculture & Agri-Food Canada, Lethbridge, Canada (non-U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 5939303		19990817	
APPLICATION INFO.:	US 1996-744779		19961106	(8)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-19735P	19960614 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Mosher, Mary E.
LEGAL REPRESENTATIVE: Greenlee, Winner & Sullivan, P.C.
NUMBER OF CLAIMS: 22
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 29 Drawing Figure(s); 14 Drawing Page(s)
LINE COUNT: 1703
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel phytases derived from ruminal microorganisms are provided. The

phytases are capable of catalyzing the release of inorganic phosphorus from phytic acid. Preferred sources of phytases include Selenomonas, Prevotella, Treponema and Megasphaera. A purified and isolated DNA encoding a phytase of Selenomonas ruminantium JY35 (ATCC 55785) is provided. Recombinant expression vectors containing DNA's encoding the novel phytases and host cells transformed with DNA's encoding the novel phytases are also provided. The novel phytases are useful in a wide range of applications involving the dephosphorylation of phytate, including, among other things, use in animal feed supplements.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L34 ANSWER 30 OF 36 USPATFULL

ACCESSION NUMBER:	1999:1780 USPATFULL		
TITLE:	**Oil bodies** and associated proteins as affinity matrices		
INVENTOR(S):	Moloney, Maurice, Calgary, Canada van Rooijen, Gijs, Calgary, Canada Boothe, Joseph, Calgary, Canada		
PATENT ASSIGNEE(S):	Sembiosys Genetics Inc., Calgary, Canada (non-U.S. corporation)		
	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5856452		19990105
APPLICATION INFO.:	US 1996-767026		19961216 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Grimes, Eric		
LEGAL REPRESENTATIVE:	Bereskin & Parr		
NUMBER OF CLAIMS:	25		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	17 Drawing Figure(s); 17 Drawing Page(s)		
LINE COUNT:	1775		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for the **separation** of a target molecule from a mixture is described. The method employs **oil bodies** and their associated proteins as affinity matrices for the selective, non-covalent binding of desired target molecules. The oil body proteins may be genetically fused to a ligand having specificity for the desired target molecule. Native oil body proteins can also be used in conjunction with an oil body protein specific ligand such as an antibody or an oil body binding protein. The method allows the **separation** and recovery of the desired target molecules due to the difference in densities between **oil bodies** and aqueous solutions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L34 ANSWER 31 OF 36 USPATFULL

ACCESSION NUMBER:	1998:95686 USPATFULL		
TITLE:	Oil-body protein cis-elements as regulatory signals		
INVENTOR(S):	Moloney, Maurice M., Calgary, Canada		
PATENT ASSIGNEE(S):	Sembiosys Genetics Inc., Calgary, Canada (non-U.S. corporation)		
	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5792922		19980811
	WO 9320216		19931014
APPLICATION INFO.:	US 1995-313098		19950127 (8)
	WO 1993-CA141		19930402
			19950127 PCT 371 date
			19950127 PCT 102(e) date
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1992-862355, filed on 2 Apr 1992, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	WO 1992-CA161	19920415

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Campell, Bruce R.
LEGAL REPRESENTATIVE: Bereskin & Parr
NUMBER OF CLAIMS: 37
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 9 Drawing Figure(s); 7 Drawing Page(s)
LINE COUNT: 996
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB DNA constructs comprising 5' untranslated sequences from genes active from the late globular stage through to embryo maturity are provided. These constructs may be used to obtain expression of a DNA sequence of interest during phases of embryogenesis which precede the accumulation of storage proteins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L34 ANSWER 32 OF 36 BIOTECHDS COPYRIGHT 2002 THOMSON DERWENT AND ISI
ACCESSION NUMBER: 1998-08653 BIOTECHDS
TITLE: **Separation** of target molecules from samples; DNA **purification** and protein **purification** using oil body
AUTHOR: Moloney M; Boothe J; van Rooijen G
PATENT ASSIGNEE: SemBioSys-Genetics
LOCATION: Calgary, Alberta, Canada.
PATENT INFO: WO 9827115 25 Jun 1998
APPLICATION INFO: WO 1997-CA951 5 Dec 1997
PRIORITY INFO: US 1996-767026 16 Dec 1996
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: WPI: 1998-362720 [31]
AN 1998-08653 BIOTECHDS
AB A new method for the **separation** of a target molecule (TM) from a sample involves contacting **oil bodies** (OB) with a sample containing the TM to allow the TM to associate with OB, and separating OB from the sample. Also claimed are: a composition consisting of OB associated with a molecule; and an affinity matrix for separating a TM containing OB, optionally associated with a ligand molecule capable of associating with the TM. The TM may be protein e.g. thrombin, peptides, organic molecules e.g. biotin, lipids, carbohydrates, nucleic acids, cells, cell organelles, cell components, viruses, metals e.g. cadmium, metal ions and ions. The OB are preferably from plants e.g. thale cress (Arabidopsis thaliana), rape (Brassica sp.), soybean (Glycine max), sunflower (Helianthus annuus), oil palm (Elaeis guineeis), cotton (Gossypium sp.), peanut (Arachis hypogaea), coconut (Cocus nucifera), castorbean (Ricinus communis), safflower (Carthamus tinctorius), mustard (Brassica sp. and Sinapsis alba), coriander (Coriandrum sativum), flax (Linum usitatissimum) and maize (Zea mays). (93pp)

L34 ANSWER 33 OF 36 CABA COPYRIGHT 2002 CABI
ACCESSION NUMBER: 1998:184733 CABA
DOCUMENT NUMBER: 981614336
TITLE: From farming for food to pharming for pharmaceuticals and other high value proteins in crucifers
AUTHOR: Rooijen, G. J. H. van; Kuhnel, B.; Kumar, V.; Liu, J. H.; Mahmoud, S.; Moloney, M. M.; van Rooijen, G. J. H.; Thomas, G. [EDITOR]; Monteiro, A. A. [EDITOR]
CORPORATE SOURCE: SemBioSys Genetics, 2500 University Dr., Calgary, Alberta T2N 1N4, Canada.

SOURCE: Acta Horticulturae, (1998) No. 459, pp. 429-433. 20 ref.
Meeting Info.: Brassica '97. Proceedings of the international symposium on brassicas, Rennes, France, 23-27 September 1997.
ISSN: 0567-7572; ISBN: 90-6605-820-X
DOCUMENT TYPE: Conference Article; Journal
LANGUAGE: English

AB A novel strategy was developed for the production and **purification** of foreign proteins and peptides in oilseeds. The strategy involves the fusion of the protein/peptide of interest to oleosin by extending the nucleotide sequence of oleosins to include other proteins. Oleosins are structural proteins tightly associated with the oil body, the natural oil storage organelle of the plant seed. Proteins/peptides of interest could include sequences rich in essential amino acids, enzymes and therapeutic/pharmaceutical proteins. **Oil bodies**, and proteins associated with them, can be easily separated from the majority of other seed cell components using flotation **separation** /centrifugation, facilitating the **purification** of the desired protein. This technology was developed in canola [rape] (Brassica napus) for several reasons: it is amenable to genetic transformation, has a relatively high oil (body) content and is a widely grown crop plant. One application is to improve the nutritional quality of the canola meal by expressing a nutritional peptide as an oleosin fusion. Using this technique, a biologically active fish growth hormone was successfully expressed on the surface of the oil body. A second application of this technology is to produce an oil body-oleosin-enzyme complex which functions as an immobilized catalyst. A third application is the production of an oleosin fusion and the subsequent recovery of the recombinant fusion protein. Using this application, a biologically active blood anti-coagulant hirudin was produced and purified. Oleosins accumulate in all seeds and it is likely that the production and recovery of oleosin fusion proteins could be done in all seeds. This technology is currently being adapted for use in several other crucifers such as Brassica carinata and Sinapis alba, and other oil seeds such as Linum usitatissimum.

L34 ANSWER 34 OF 36 BIOTECHNO COPYRIGHT 2002 Elsevier Science B.V.DUPLICATE
ACCESSION NUMBER: 1998:28123270 BIOTECHNO
TITLE: Characterization of the oligomeric behavior of a 16.5 kDa peanut oleosin by chromatography and electrophoresis of the iodinated form
AUTHOR: Pons L.; Olszewski A.; Gueant J.-L.
CORPORATE SOURCE: J.-L. Gueant, Lab. Pathol. Cell. Molec. Nutrition, EP CNRS 0616, Faculte de Medecine, B. P. 184, 54505 Vandoeuvre-les-Nancy Cedex, France.
SOURCE: Journal of Chromatography B: Biomedical Applications, (27 FEB 1998), 706/1 (131-140), 35 reference(s)
CODEN: JCBBEP ISSN: 0378-4347
PUBLISHER ITEM IDENT.: S0378434797005306
DOCUMENT TYPE: Journal; Conference Article
COUNTRY: Netherlands
LANGUAGE: English
SUMMARY LANGUAGE: English
AN 1998:28123270 BIOTECHNO

AB Oleosins are amphipathic proteins associated with **oil bodies** in seeds. We purified the major 16 500 peanut oleosin by preparative SDS-PAGE. Autoradiography after SDS-PAGE **separation** of the iodinated oleosin revealed covalently bound oligomers with M, of 21 000, 33 000, 44 000 and 51 000. The strong capacity of these oligomers to form aggregates and to be incorporated into large-sized detergent micelles was demonstrated by gel permeation and isoelectric focusing. A 50% ethanol concentration was necessary to elute the 16 500 oleosin from octyl groups in hydrophobic interaction chromatography showing its natural tendency to interact with lipid acyl chains. This oligomerization

behavior in aqueous solution is an indirect reflection of the interactions that occur in the oil body.

=>

Inventor Name Search Result

Your Search was:

Last Name = BOOTHE
First Name = JOSEPH

Application#	Patent#	Status	Date Filed	Title	Inventor Name
60047753	Not Issued	159	05/27/1997	PROCESS FOR THE LARGE SCALE PURIFICATION OF OIL BODIES	BOOTHE , JOSEPH
60047779	Not Issued	159	05/28/1997	USES OF OIL BODIES AND OIL BODY COMPONENTS	BOOTHE , JOSEPH
60075864	Not Issued	159	02/25/1998	PROCESS FOR THE LARGE SCALE PURIFICATION OF OIL BODIES	BOOTHE , JOSEPH
60075863	Not Issued	159	02/25/1998	USES OF OIL BODIES AND OIL BODY COMPONENTS	BOOTHE , JOSEPH
08767026	5856452	150	12/16/1996	OIL BODIES AND ASSOCIATED PROTEINS AS AFFINITY MATRICES	BOOTHE , JOSEPH
09319275	Not Issued	093	08/27/1999	OIL BODIES AND ASSOCIATED PROTEINS AS AFFINITY MATRICES	BOOTHE , JOSEPH
09084777	6146645	150	05/27/1998	USES OF OIL BODIES	BOOTHE , JOSEPH
09577147	6372234	150	05/24/2000	PRODUCTS FOR TOPICAL APPLICATIONS COMPRISING OIL BODIES AND ANTIBODIES	BOOTHE, JOSEPH
09448755	Not Issued	161	11/24/1999	OIL BODIES AS TOPICAL DELIVERY VEHICLES FOR ACTIVE AGENTS	BOOTHE, JOSEPH
09880901	Not Issued	030	06/15/2001	VACCINES COMPRISING OIL BODIES	BOOTHE, JOSEPH
09610855	6210742	150	07/05/2000	USES OF OIL BODIES	BOOTHE, JOSEPH
09897898	Not Issued	030	07/05/2001	THIOREDOXIN AND THIOREDOXIN REDUCTASE CONTAINING OIL BODY BASED PRODUCTS	BOOTHE, JOSEPH
09448600	6183762	150	11/24/1999	OIL BODY BASED PERSONAL CARE PRODUCTS	BOOTHE, JOSEPH
09643755	Not Issued	041	08/23/2000	COMMERCIAL PRODUCTION OF CHYMOSIN IN PLANTS	BOOTHE, JOSEPH
09707167	Not Issued	030	11/07/2000	OIL BODIES AND ASSOCIATED PROTEINS AS AFFINITY	BOOTHE, JOSEPH

				MATRICES	
09983540	Not Issued	071	10/24/2001	PRODUCTS FOR TOPICAL APPLICATIONS COMPRISING OIL BODIES	BOOTHE, JOSEPH
09983546	Not Issued	030	10/24/2001	PRODUCTS FOR TOPICAL APPLICATIONS COMPRISING OIL BODIES	BOOTHE, JOSEPH
10058125	Not Issued	041	01/29/2002	PRODUCTS FOR TOPICAL APPLICATIONS COMPRISING OIL BODIES	BOOTHE, JOSEPH

Inventor Search Completed: No Records to Display.

Search Another: Inventor **Last Name** boothe **First Name** joseph Search

To go back use Back button on your browser toolbar.

Back to PALM | ASSIGNMENT | OASIS | Home page

Inventor Name Search Result

Your Search was:

Last Name = MALONEY
First Name = MAURICE

Application#	Patent#	Status	Date Filed	Title	Inventor Name
08192112	5542653	150	02/04/1993	PORTABLE MODULAR FRAMING TABLE APPARATUS	MALONEY , MAURICE E
09707167	Not Issued	030	11/07/2000	OIL BODIES AND ASSOCIATED PROTEINS AS AFFINITY MATRICES	MALONEY, MAURICE

Inventor Search Completed: No Records to Display.

Search Another: Inventor **Last Name** Maloney **First Name** Maurice Search

To go back use Back button on your browser toolbar.

Back to PALM | ASSIGNMENT | OASIS | Home page

Application Number Information

Application Number: **09/319275** Assignments
Filing Date: **08/27/1999**
Effective Date: **08/27/1999**
Application Received: **08/27/1999**
Patent Number:
Issue Date: **00/00/0000**
Date of Abandonment: **00/00/0000**
Attorney Docket Number: **9369-85**
Examiner Number: **77355 / ROBINSON, HOPE**
Group Art Unit: **1653**
Class/Subclass: **435/183.000**
Lost Case: **NO**
Interference Number:
Unmatched Petition: **NO**
L&R Code: Secrecy Code:**1**
Third Level Review: **NO**
Waiting for Response Desc.
Mail N/=.
MN/DR
Secrecy Order: **NO**
Status: **93 /NOTICE OF ALLOWANCE MAILED -- APPLICATION RECEIVED IN OFFICE OF PUBLICATIONS**
Status Date: **08/21/2002**
Confirmation Number: **2739**
Title of Invention: **OIL BODIES AND ASSOCIATED PROTEINS AS AFFINITY MATRICES**

Bar Code	Location	Location Date	Chrg to Loc	Charge to Name	Emp. ID	Infra Loc
09319275	7410 PUBS - INITIAL DATA CAPTURE (FILE UNAVAILABLE)	08/23/2002		No Charge to Name	MWAGNER9	IDC/01/

Appln Info | Contents | Petition Info | Atty/Agent Info | Continuity Data | Foreign Data | Invent

Search Another: Application# [ ] Search **or Patent#** [ ] Search
PCT / [ ] / [ ] Search **or PG PUBS #** [ ] Search
Attorney Docket # [ ] Search
Bar Code # [ ] Search

To go back use Back button on your browser toolbar.

Inventor Name Search Result

Your Search was:

Last Name = ROOIJEN
First Name = GIJS VAN

Application#	Patent#	Status	Date Filed	Title	Inventor Name
08767026	5856452	150	12/16/1996	OIL BODIES AND ASSOCIATED PROTEINS AS AFFINITY MATRICES	ROOIJEN , GIJS VAN

Inventor Search Completed: No Records to Display.

Search Another: Inventor **Last Name** rooijen **First Name** Gijs van Search

To go back use Back button on your browser toolbar.

Back to PALM | ASSIGNMENT | OASIS | Home page

WEST

Generate Collection | Print

Search Results - Record(s) 1 through 12 of 12 returned.

☐ 1. Document ID: US 20020114820 A1

L3: Entry 1 of 12 File: PGPB Aug 22, 2002

PGPUB-DOCUMENT-NUMBER: 20020114820
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020114820 A1

TITLE: Products for topical applications comprising oil bodies

PUBLICATION-DATE: August 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Deckers, Harm M.	Calgary		CA	
Van Rooijen, Gijs	Calgary		CA	
Boothe, Joseph	Calgary		CA	
Goll, Janis	Calgary		CA	
Moloney, Maurice M.	Calgary		CA	

US-CL-CURRENT: 424/401

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

☐ 2. Document ID: US 20020106337 A1

L3: Entry 2 of 12 File: PGPB Aug 8, 2002

PGPUB-DOCUMENT-NUMBER: 20020106337
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020106337 A1

TITLE: Products for topical applications comprising oil bodies

PUBLICATION-DATE: August 8, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Deckers, Harm M.	Calgary		CA	
Van Rooijen, Gijs	Calgary		CA	
Boothe, Joseph	Calgary		CA	
Goll, Janis	Calgary		CA	
Moloney, Maurice M.	Calgary		CA	

US-CL-CURRENT: 424/59; 424/60

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

☐ 3. Document ID: US 20020071852 A1

L3: Entry 3 of 12 File: PGPB Jun 13, 2002

PGPUB-DOCUMENT-NUMBER: 20020071852
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020071852 A1

TITLE: Products for topical applications comprising oil bodies

PUBLICATION-DATE: June 13, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Deckers, Harm M.	Calgary		CA	
van Rooijen, Gijs	Calgary		CA	
Boothe, Joseph	Calgary		CA	
Goll, Janis	Calgary		CA	
Moloney, Maurice M.	Calgary		CA	

US-CL-CURRENT: 424/401; 424/417, 426/601, 426/602, 426/605, 426/615, 426/629, 426/635, 426/805, 514/937, 516/53

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

☐ 4. Document ID: US 20020071846 A1

L3: Entry 4 of 12 File: PGPB Jun 13, 2002

PGPUB-DOCUMENT-NUMBER: 20020071846
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020071846 A1

TITLE: Vaccines comprising oil bodies

PUBLICATION-DATE: June 13, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Deckers, Harm M.	Alberta		CA	
Rooijen, Gijs Van	Alberta		CA	
Boothe, Joseph	Alberta		CA	
Goll, Janis	Alberta		CA	
Moloney, Maurice M.	Alberta		CA	
Schryvers, Anthony B.	Alberta		CA	
Alcantara, Joenel	Alberta		CA	
Hutchins, Wendy A.	Alberta		CA	

US-CL-CURRENT: 424/184.1; 424/731, 424/750, 424/755, 424/757, 424/758, 424/764, 424/768

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

☐ 5. Document ID: US 20020037303 A1

L3: Entry 5 of 12 File: PGPB Mar 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020037303
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020037303 A1

TITLE: Thioredoxin and thioredoxin reductase containing oil body based products

PUBLICATION-DATE: March 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Deckers, Harm M.	Calgary	CA	CA	
Rooijen, Gijs van	Calgary		CA	
Boothe, Joseph	Calgary		CA	
Goll, Janis	Calgary		CA	
Moloney, Maurice M.	Calgary		CA	
Dalmia, Bipin K.	San Diego		US	

US-CL-CURRENT: 424/401

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Image

---

☐ 6. Document ID: US 6372234 B1

L3: Entry 6 of 12 File: USPT Apr 16, 2002

US-PAT-NO: 6372234
DOCUMENT-IDENTIFIER: US 6372234 B1

TITLE: Products for topical applications comprising oil bodies

DATE-ISSUED: April 16, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Deckers; Harm M.	Calgary			CA
van Rooijen; Gijs	Calgary			CA
Boothe; Joseph	Calgary			CA
Goll; Janis	Calgary			CA
Moloney; Maurice M.	Calgary			CA

US-CL-CURRENT: 424/401; 424/400, 424/450, 514/937, 516/53

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Image

---

☐ 7. Document ID: US 6210742 B1

DATE-ISSUED: April 3, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Deckers; Harm M	Calgary			CA
van Rooijen; Gijs	Calgary			CA
Boothe; Joseph	Calgary			CA
Goll; Janis	Calgary			CA
Mahmoud; Soheil	Calgary			CA
Moloney; Maurice M.	Calgary			CA

US-CL-CURRENT: 426/630; 426/302, 426/602, 426/615, 426/635, 426/89, 516/53

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

---

☐ 8. Document ID: US 6183762 B1

L3: Entry 8 of 12 File: USPT Feb 6, 2001

US-PAT-NO: 6183762
DOCUMENT-IDENTIFIER: US 6183762 B1

TITLE: Oil body based personal care products

DATE-ISSUED: February 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Deckers; Harm M.	Calgary			CA
van Rooijen; Gijs	Calgary			CA
Boothe; Joseph	Calgary			CA
Goll; Janis	Calgary			CA
Moloney; Maurice M.	Calgary			CA

US-CL-CURRENT: 424/401; 426/417, 426/601, 426/602, 426/605, 426/615, 426/629, 426/635, 426/805, 514/937, 516/53

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

NAME	CITY	STATE	ZIP CODE	COUNTRY
Deckers; Harm M	Calgary			CA
van Rooijen; Gijs	Calgary			CA
Boothe; Joseph	Calgary			CA
Goll; Janis	Calgary			CA
Mahmoud; Soheil	Calgary			CA
Moloney; Maurice M.	Calgary			CA

US-CL-CURRENT: 424/401; 426/417, 426/601, 426/602, 426/605, 426/615, 426/629, 426/635, 426/805, 514/937, 516/53

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Image

---

☐ 10. Document ID: US 5856452 A

L3: Entry 10 of 12 File: USPT Jan 5, 1999

US-PAT-NO: 5856452
DOCUMENT-IDENTIFIER: US 5856452 A

TITLE: Oil bodies and associated proteins as affinity matrices

DATE-ISSUED: January 5, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moloney; Maurice	Calgary			CA
van Rooijen; Gijs	Calgary			CA
Boothe; Joseph	Calgary			CA

US-CL-CURRENT: 530/412; 435/262, 435/270, 435/272, 435/277

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Image

---

☐ 11. Document ID: WO 9853698 A1

L3: Entry 11 of 12 File: EPAB Dec 3, 1998

PUB-NO: WO009853698A1
DOCUMENT-IDENTIFIER: WO 9853698 A1
TITLE: USES OF OIL BODIES

PUBN-DATE: December 3, 1998

INVENTOR-INFORMATION:

NAME	COUNTRY
DECKERS, HARM M	CA
VAN, ROOIJEN GIJS	CA
BOOTHE, JOSEPH	CA
GOLL, JANIS	CA
MOLONEY, MAURICE	CA
MAHMOUD, SOHEIL SAYED	CA

INT-CL (IPC): A23 D 7/00; C11 B 1/10; B01 F 17/00; A23 L 1/035; A23 K 1/16; A23 L

1/24; A23 L 1/39; A61 K 7/00; A61 K 9/107
EUR-CL (EPC): A23G003/00; A23G003/00, A23G003/00 , A23G003/00 , A23G003/30 , A23G009/02 , A23G009/02 , A23L001/225 , A61K007/02 , A61K007/06 , A61K007/26 , A61K007/42 , A61K007/46 , A23L001/187 , A23D007/00 , A23D007/00 , A23G003/30 , A23K001/165 , A23K001/18 , A23L001/24 , A23L001/39 , A61K007/48 , A61K035/78 , A61K047/44 , C11B001/10 , A23G003/00 , A23P001/08 , C09D005/02

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Image

---

☐ 12. Document ID: WO 9827115 A1

L3: Entry 12 of 12 File: EPAB Jun 25, 1998

PUB-NO: WO009827115A1
DOCUMENT-IDENTIFIER: WO 9827115 A1
TITLE: OIL BODIES AND ASSOCIATED PROTEINS AS AFFINITY MATRICES

PUBN-DATE: June 25, 1998

INVENTOR-INFORMATION:

NAME	COUNTRY
MOLONEY, MAURICE	CA
BOOTHE, JOSEPH	CA
VAN, ROOIJEN GIJS	CA

INT-CL (IPC): C07 K 14/415; C07 K 1/22; C12 N 9/74; C07 K 16/06; C08 B 1/00; C07 H 21/00; C01 G 11/00; B01 D 15/08
EUR-CL (EPC): B01D015/08; C01G011/00, C07H021/00 , C07H021/00 , C07K001/22 , C07K014/415 , C07K016/06 , C08B001/00 , C12N009/74

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Image

---

Generate Collection | Print

Term	Documents
BOOTHE-JOSEPH.DWPI,EPAB,USPT,PGPB.	12
BOOTHE-JOSEPHS	0
BOOTHE-JOSEPH.IN..USPT,PGPB,EPAB,DWPI,TDBD.	12
(BOOTHE-JOSEPH.IN.).USPT,PGPB,EPAB,DWPI,TDBD.	12

Display Format: - Change Format

WEST

Generate Collection | Print

Search Results - Record(s) 1 through 12 of 12 returned.

☐ 1. Document ID: US 20020114820 A1

L6: Entry 1 of 12 File: PGPB Aug 22, 2002

PGPUB-DOCUMENT-NUMBER: 20020114820
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020114820 A1

TITLE: Products for topical applications comprising oil bodies

PUBLICATION-DATE: August 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Deckers, Harm M.	Calgary		CA	
Van Rooijen, Gijs	Calgary		CA	
Boothe, Joseph	Calgary		CA	
Goll, Janis	Calgary		CA	
Moloney, Maurice M.	Calgary		CA	

US-CL-CURRENT: 424/401

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

☐ 2. Document ID: US 20020106337 A1

L6: Entry 2 of 12 File: PGPB Aug 8, 2002

PGPUB-DOCUMENT-NUMBER: 20020106337
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020106337 A1

TITLE: Products for topical applications comprising oil bodies

PUBLICATION-DATE: August 8, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Deckers, Harm M.	Calgary		CA	
Van Rooijen, Gijs	Calgary		CA	
Boothe, Joseph	Calgary		CA	
Goll, Janis	Calgary		CA	
Moloney, Maurice M.	Calgary		CA	

US-CL-CURRENT: 424/59; 424/60

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

☐ 3. Document ID: US 20020071852 A1

L6: Entry 3 of 12 File: PGPB Jun 13, 2002

PGPUB-DOCUMENT-NUMBER: 20020071852
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020071852 A1

TITLE: Products for topical applications comprising oil bodies

PUBLICATION-DATE: June 13, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Deckers, Harm M.	Calgary		CA	
van Rooijen, Gijs	Calgary		CA	
Boothe, Joseph	Calgary		CA	
Goll, Janis	Calgary		CA	
Moloney, Maurice M.	Calgary		CA	

US-CL-CURRENT: 424/401; 424/417, 426/601, 426/602, 426/605, 426/615, 426/629, 426/635, 426/805, 514/937, 516/53

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

☐ 4. Document ID: US 20020071846 A1

L6: Entry 4 of 12 File: PGPB Jun 13, 2002

PGPUB-DOCUMENT-NUMBER: 20020071846
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020071846 A1

TITLE: Vaccines comprising oil bodies

PUBLICATION-DATE: June 13, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Deckers, Harm M.	Alberta		CA	
Rooijen, Gijs Van	Alberta		CA	
Boothe, Joseph	Alberta		CA	
Goll, Janis	Alberta		CA	
Moloney, Maurice M.	Alberta		CA	
Schryvers, Anthony B.	Alberta		CA	
Alcantara, Joenel	Alberta		CA	
Hutchins, Wendy A.	Alberta		CA	

US-CL-CURRENT: 424/184.1; 424/731, 424/750, 424/755, 424/757, 424/758, 424/764, 424/768

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

☐ 5. Document ID: US 20020037303 A1

L6: Entry 5 of 12 File: PGPB Mar 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020037303
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020037303 A1

TITLE: Thioredoxin and thioredoxin reductase containing oil body based products

PUBLICATION-DATE: March 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Deckers, Harm M.	Calgary	CA	CA	
Rooijen, Gijs van	Calgary		CA	
Boothe, Joseph	Calgary		CA	
Goll, Janis	Calgary		CA	
Moloney, Maurice M.	Calgary		CA	
Dalmia, Bipin K.	San Diego		US	

US-CL-CURRENT: 424/401

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

---

☐ 6. Document ID: US 6395889 B1

L6: Entry 6 of 12 File: USPT May 28, 2002

US-PAT-NO: 6395889
DOCUMENT-IDENTIFIER: US 6395889 B1

TITLE: Nucleic acid molecules encoding human protease homologs

DATE-ISSUED: May 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Robison; Keith E.	Wilmington	MA		

US-CL-CURRENT: 536/23.2; 435/252.3, 435/320.1, 435/69.1, 536/23.5

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

---

☐ 7. Document ID: US 6372234 B1

L6: Entry 7 of 12 File: USPT Apr 16, 2002

US-PAT-NO: 6372234
DOCUMENT-IDENTIFIER: US 6372234 B1

TITLE: Products for topical applications comprising oil bodies

DATE-ISSUED: April 16, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Deckers; Harm M.	Calgary			CA
van Rooijen; Gijs	Calgary			CA
Boothe; Joseph	Calgary			CA
Goll; Janis	Calgary			CA
Moloney; Maurice M.	Calgary			CA

US-CL-CURRENT: 424/401; 424/400, 424/450, 514/937, 516/53

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Image

---

☐ 8. Document ID: US 6331427 B1

L6: Entry 8 of 12 File: USPT Dec 18, 2001

US-PAT-NO: 6331427
DOCUMENT-IDENTIFIER: US 6331427 B1

TITLE: Protease homologs

DATE-ISSUED: December 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Robison; Keith E.	Wilmington	MA		

US-CL-CURRENT: 435/226; 435/23, 435/252.3, 435/6, 435/69.1, 435/7.1, 536/23.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Image

---

☐ 9. Document ID: US 6183762 B1

L6: Entry 9 of 12 File: USPT Feb 6, 2001

US-PAT-NO: 6183762
DOCUMENT-IDENTIFIER: US 6183762 B1

TITLE: Oil body based personal care products

DATE-ISSUED: February 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Deckers; Harm M.	Calgary			CA
van Rooijen; Gijs	Calgary			CA
Boothe; Joseph	Calgary			CA
Goll; Janis	Calgary			CA
Moloney; Maurice M.	Calgary			CA

US-CL-CURRENT: 424/401; 426/417, 426/601, 426/602, 426/605, 426/615, 426/629, 426/635, 426/805, 514/937, 516/53

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Image

☐ 10. Document ID: US 5856452 A

L6: Entry 10 of 12 File: USPT Jan 5, 1999

US-PAT-NO: 5856452
DOCUMENT-IDENTIFIER: US 5856452 A

TITLE: Oil bodies and associated proteins as affinity matrices

DATE-ISSUED: January 5, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moloney; Maurice	Calgary			CA
van Rooijen; Gijs	Calgary			CA
Boothe; Joseph	Calgary			CA

US-CL-CURRENT: 530/412; 435/262, 435/270, 435/272, 435/277

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

☐ 11. Document ID: US 4678580 A

L6: Entry 11 of 12 File: USPT Jul 7, 1987

US-PAT-NO: 4678580
DOCUMENT-IDENTIFIER: US 4678580 A

TITLE: Hydrolysis of fats

DATE-ISSUED: July 7, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brady; Cathereine D.	Downers Grove	IL		
Metcalfe; Lincoln D.	Lagrange	IL		
Slaboszewski; Dale R.	Joliet	IL		
Frank; Dieter	Naperville	IL		

US-CL-CURRENT: 210/490; 210/500.42, 521/53, 521/84.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

☐ 12. Document ID: WO 9827115 A1

L6: Entry 12 of 12 File: EPAB Jun 25, 1998

PUB-NO: WO009827115A1
DOCUMENT-IDENTIFIER: WO 9827115 A1
TITLE: OIL BODIES AND ASSOCIATED PROTEINS AS AFFINITY MATRICES

PUBN-DATE: June 25, 1998

INVENTOR-INFORMATION:

NAME	COUNTRY
MOLONEY, MAURICE	CA
BOOTHE, JOSEPH	CA
VAN, ROOIJEN GIJS	CA

INT-CL (IPC): C07 K 14/415; C07 K 1/22; C12 N 9/74; C07 K 16/06; C08 B 1/00; C07 H 21/00; C01 G 11/00; B01 D 15/08
EUR-CL (EPC): B01D015/08; C01G011/00, C07H021/00 , C07H021/00 , C07K001/22 , C07K014/415 , C07K016/06 , C08B001/00 , C12N009/74

Generate Collection Print

Term	Documents
COVALENT.DWPI,TDBD,EPAB,USPT,PGPB.	43072
COVALENTS.DWPI,TDBD,EPAB,USPT,PGPB.	7
(5 AND COVALENT).USPT,PGPB,EPAB,DWPI,TDBD.	12
(L5 AND COVALENT).USPT,PGPB,EPAB,DWPI,TDBD.	12

Display Format: - Change Format

Previous Page Next Page

WEST

Generate Collection | Print

Search Results - Record(s) 1 through 16 of 16 returned.

☐ 1. Document ID: US 20020102695 A1

L2: Entry 1 of 16 File: PGPB Aug 1, 2002

PGPUB-DOCUMENT-NUMBER: 20020102695
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020102695 A1

TITLE: Transcription factor stress-related proteins and methods of use in plants

PUBLICATION-DATE: August 1, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Silva, Oswaldo da Costa e	Apex	NC	US	
Bohnert, Hans J.	Tucson	AZ	US	
Thielen, Nocha van	Cary	NC	US	
Chen, Ruoying	Apex	NC	US	

US-CL-CURRENT: 435/199; 435/410, 800/278

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

☐ 2. Document ID: US 20020100073 A1

L2: Entry 2 of 16 File: PGPB Jul 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020100073
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020100073 A1

TITLE: Expression of somatotropin in plant seeds

PUBLICATION-DATE: July 25, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Moloney, Maurice M.	Calgary		CA	
Habibi, Hamid R.	Calgary		CA	

US-CL-CURRENT: 800/278; 435/69.7, 530/350, 530/399, 536/23.4, 536/23.6, 800/288, 800/298

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

☐ 3. Document ID: US 20020069432 A1

L2: Entry 3 of 16 File: PGPB Jun 6, 2002

PGPUB-DOCUMENT-NUMBER: 20020069432
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020069432 A1

TITLE: Signal transduction stress-related proteins and methods of use in plants

PUBLICATION-DATE: June 6, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
e Silva, Oswaldo da Costa	Apex	NC	US	
Bohnert, Hans J.	Tucson	AZ	US	
van Thielen, Nocha	Cary	NC	US	
Chen, Ruoying	Apex	NC	US	
Ishitani, Manabu	Cary	NC	US	

US-CL-CURRENT: 800/298; 435/419, 530/350, 536/23.5, 800/278

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw. Desc | Image

---

☐ 4. Document ID: US 20020066124 A1

L2: Entry 4 of 16 File: PGPB May 30, 2002

PGPUB-DOCUMENT-NUMBER: 20020066124
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020066124 A1

TITLE: GTP binding stress-related proteins and methods of use in plants

PUBLICATION-DATE: May 30, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Silva, Oswaldo da Costa e	Apex	NC	US	
Bohnert, Hans J.	Tucson	AZ	US	
Thielen, Nocha Van	Cary	NC	US	
Chen, Ruoying	Apex	NC	US	

US-CL-CURRENT: 800/289; 435/419, 530/370, 536/23.6, 800/278, 800/286, 800/287

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw. Desc | Image

---

☐ 5. Document ID: US 20020064816 A1

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lerchl, Jens	Ladenburg		DE	
Renz, Andreas	Limburgerhof		DE	
Ehrhardt, Thomas	Speyer		DE	
Reindl, Andreas	Birkenheide		DE	
Cirpus, Petra	Mannheim		DE	
Bischoff, Friedrich	Mannheim		DE	
Frank, Markus	Ludwigshafen		DE	
Freund, Annette	Limburgerhof		DE	
Duwenig, Elke	Freiburg		DE	
Schmidt, Ralf-Michael	Kirrweiler		DE	
Reski, Ralf	Oberried		DE	

US-CL-CURRENT: 435/69.1; 435/200, 435/410, 536/23.2

☐ 6. Document ID: US 20020059662 A1

L2: Entry 6 of 16 File: PGPB May 16, 2002

PGPUB-DOCUMENT-NUMBER: 20020059662
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020059662 A1

TITLE: Protein kinase stress-related proteins and methods of use in plants

PUBLICATION-DATE: May 16, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
e Silva, Oswaldo da Costa	Apex	NC	US	
Bohnert, Hans J.	Tucson	NC	US	
Thielen, Nocha Van	Cary	NC	US	
Chen, Ruoying	Apex	NC	US	
Sarria-Millan, Rodrigo	Morrisville	NC	US	

US-CL-CURRENT: 800/289; 530/370, 536/23.6, 800/278, 800/286, 800/287

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Howell, Steven	Sharnbrook		GB	
Little, Julie	Sharnbrook		GB	
Van Der Logt, Cornelis Paul	Vlaardingen		NL	
Parry, Neil James	Sharnbrook		GB	

US-CL-CURRENT: 510/305; 510/302, 510/306, 510/392

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Image

---

☐ 8. Document ID: US 20010039250 A1

L2: Entry 8 of 16 File: PGPB Nov 8, 2001

PGPUB-DOCUMENT-NUMBER: 20010039250
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010039250 A1

TITLE: Method of delivering a benefit agent

PUBLICATION-DATE: November 8, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Howell, Steven	Sharnbrook		GB	
Little, Julie	Sharnbrook		GB	
Van Der Logt, Cornelis Paul	Vlaardingen		NL	
Parry, Neil James	Shambrook		GB	

US-CL-CURRENT: 510/130; 510/305, 510/306

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Image

---

☐ 9. Document ID: US 6395889 B1

L2: Entry 9 of 16 File: USPT May 28, 2002

US-PAT-NO: 6395889
DOCUMENT-IDENTIFIER: US 6395889 B1

TITLE: Nucleic acid molecules encoding human protease homologs

DATE-ISSUED: May 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Robison; Keith E.	Wilmington	MA		

US-CL-CURRENT: 536/23.2; 435/252.3, 435/320.1, 435/69.1, 536/23.5

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Image

☐ 10. · Document ID: US 6331427 B1

L2: Entry 10 of 16 File: USPT Dec 18, 2001

US-PAT-NO: 6331427
DOCUMENT-IDENTIFIER: US 6331427 B1

TITLE: Protease homologs

DATE-ISSUED: December 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Robison; Keith E.	Wilmington	MA		

US-CL-CURRENT: 435/226; 435/23, 435/252.3, 435/6, 435/69.1, 435/7.1, 536/23.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Image

---

☐ 11. Document ID: US 6331416 B1

L2: Entry 11 of 16 File: USPT Dec 18, 2001

US-PAT-NO: 6331416
DOCUMENT-IDENTIFIER: US 6331416 B1

TITLE: Process of expressing and isolating recombinant proteins and recombinant protein products from plants, plant derived tissues or cultured plant cells

DATE-ISSUED: December 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shani; Ziv	Rehovot			IL
Shoseyov; Oded	Karme Yosef			IL

US-CL-CURRENT: 435/69.7; 435/252.3, 435/320.1, 435/468, 435/69.1, 530/387.3, 536/23.1, 536/23.4

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Image

---

US-CL-CURRENT: 800/288; 435/468, 435/69.4, 435/69.7, 536/23.4, 536/23.51, 536/23.6, 800/278, 800/287, 800/306, 800/310, 800/312, 800/313, 800/314, 800/320.1, 800/322

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Image

---

☐ 13. Document ID: US 6280755 B1

L2: Entry 13 of 16 File: USPT Aug 28, 2001

US-PAT-NO: 6280755
DOCUMENT-IDENTIFIER: US 6280755 B1

TITLE: Fatty acid uninterrupted by a methylene as anti-inflammatory agents in superficial tissues of mammals

DATE-ISSUED: August 28, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Berger; Alvin	St. Sulpice			CH
Jomard; Andre	Saint Vallier de Thiey			FR

US-CL-CURRENT: 424/401; 424/450, 424/458, 514/844, 514/858, 514/859, 514/861, 514/863, 514/864, 514/887, 514/943

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Image

---

☐ 14. Document ID: US 5856452 A

L2: Entry 14 of 16 File: USPT Jan 5, 1999

US-PAT-NO: 5856452
DOCUMENT-IDENTIFIER: US 5856452 A

TITLE: Oil bodies and associated proteins as affinity matrices

DATE-ISSUED: January 5, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moloney; Maurice	Calgary			CA
van Rooijen; Gijs	Calgary			CA
Boothe; Joseph	Calgary			CA

US-CL-CURRENT: 530/412; 435/262, 435/270, 435/272, 435/277

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Image

---

☐ 15. Document ID: WO 9827115 A1

L2: Entry 15 of 16 File: EPAB Jun 25, 1998

PUB-NO: WO009827115A1

DOCUMENT-IDENTIFIER: WO 9827115 A1
TITLE: OIL BODIES AND ASSOCIATED PROTEINS AS AFFINITY MATRICES

PUBN-DATE: June 25, 1998

INVENTOR-INFORMATION:

NAME	COUNTRY
MOLONEY, MAURICE	CA
BOOTHE, JOSEPH	CA
VAN, ROOIJEN GIJS	CA

INT-CL (IPC): C07 K 14/415; C07 K 1/22; C12 N 9/74; C07 K 16/06; C08 B 1/00; C07 H 21/00; C01 G 11/00; B01 D 15/08
EUR-CL (EPC): B01D015/08; C01G011/00, C07H021/00 , C07H021/00 , C07K001/22 , C07K014/415 , C07K016/06 , C08B001/00 , C12N009/74

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Image

---

☐ 16. Document ID: AU 739339 B WO 9827115 A1 ZA 9711237 A AU 9852204 A US 5856452 A BR 9713727 A CN 1245503 A EP 1007554 A1 KR 2000069499 A JP 2001506241 W NZ 336558 A MX 9905596 A1

L2: Entry 16 of 16 File: DWPI Oct 11, 2001

DERWENT-ACC-NO: 1998-362720
DERWENT-WEEK: 200171

TITLE: Separation of target molecules from samples - by contacting with oil bodies which associate with target molecules and then separating

INVENTOR: BOOTHE, J; MOLONEY, M ; VAN ROOIJEN, G ; VAN ROODIJEN, G

PRIORITY-DATA: 1996US-0767026 (December 16, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
AU 739339 B	October 11, 2001		000	C07K014/415
WO 9827115 A1	June 25, 1998	E	093	C07K014/415
ZA 9711237 A	September 30, 1998		092	B01D000/00
AU 9852204 A	July 15, 1998		000	C07K014/415
US 5856452 A	January 5, 1999		000	C07K001/14
BR 9713727 A	January 25, 2000		000	C07K014/415
CN 1245503 A	February 23, 2000		000	C07K014/415
EP 1007554 A1	June 14, 2000	E	000	C07K014/415
KR 2000069499 A	November 25, 2000		000	C07K014/00
JP 2001506241 W	May 15, 2001		094	C07K017/02
NZ 336558 A	August 31, 2001		000	C07K014/415
MX 9905596 A1	November 1, 2000		000	C07K014/415

INT-CL (IPC): B01 D 0/00; B01 D 15/08; C01 G 11/00; C07 H 21/00; C07 H 21/04; C07 K 1/14; C07 K 1/22; C07 K 14/00; C07 K 14/415; C07 K 16/06; C07 K 17/02; C07 K 19/00; C08 B 1/00; C12 N 9/74; C12 S 3/14; C12 S 13/00

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Clip Img | Image

---

Generate Collection | Print

Term	Documents
OIL.DWPI,TDBD,EPAB,USPT,PGPB.	829772
OILS.DWPI,TDBD,EPAB,USPT,PGPB.	180868
BODIES.DWPI,TDBD,EPAB,USPT,PGPB.	216399
BODY.DWPI,TDBD,EPAB,USPT,PGPB.	1817538
BODYS.DWPI,TDBD,EPAB,USPT,PGPB.	154
LIGAND.DWPI,TDBD,EPAB,USPT,PGPB.	61401
LIGANDS.DWPI,TDBD,EPAB,USPT,PGPB.	44019
(LIGAND AND (OIL ADJ BODIES)).USPT,PGPB,EPAB,DWPI,TDBD.	16
((OIL ADJ BODIES) AND LIGAND).USPT,PGPB,EPAB,DWPI,TDBD.	16

Display Format: - Change Format

Previous Page Next Page